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TrigonometryExercise5 for No.9124

$$No1 = \begin{bmatrix} .1 = \operatorname{arcSin}\left(-\frac{\sqrt{2}}{2}\right) & .2 = \operatorname{arcCos}(1) & .3 = \operatorname{arcTan}\left(\frac{\sqrt{3}}{3}\right) \\ .4 = \operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right) & .5 = \operatorname{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .6 = \operatorname{arcTan}(-\sqrt{3}) \\ .7 = \operatorname{arcSin}(0) & .8 = \operatorname{arcCos}(\sqrt{2}) & .9 = \operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcSin}\left(\frac{1}{2}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) & .3 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{\sqrt{3}}{2}\right)\right) \\ .4 = \operatorname{Cos}(\operatorname{arcTan}(-\sqrt{3})) & .5 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{\pi}{6}\right)\right) & .6 = \operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{\pi}{3}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(\frac{4\pi}{3}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{11\pi}{6}\right)\right) \\ .10 = \operatorname{Cot}\left(\operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) & .11 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{13\pi}{6}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{-1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{5}{6}\right)\right) & .2 = \operatorname{Csc}\left(\operatorname{arcSin}\left(\frac{2}{5}\right)\right) & .3 = \operatorname{Sec}\left(\operatorname{arcTan}\left(\frac{-7}{3}\right)\right) \\ .4 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{5}{7}\right)\right) & .5 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{-1}{5}\right)\right) & .6 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{\sqrt{5}}{9}\right)\right) \\ .7 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{-5}{7}\right)\right) & .8 = \operatorname{Sin}\left(\operatorname{arcTan}\left(\frac{\sqrt{5}}{4}\right)\right) & .9 = \operatorname{Cot}\left(\operatorname{arcCos}\left(-\frac{\sqrt{5}}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{1}{2}\right) + \operatorname{arcSin}\left(\frac{3}{7}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{2}{7}\right) + \operatorname{arcSin}\left(\frac{-1}{2}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcSin}\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\operatorname{arcCos}\left(\frac{3}{7}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}(10\pi) + \operatorname{Sin}\left(-\frac{17\pi}{2}\right)\right) & .6 = \operatorname{Cot}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{17\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{7\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9197

$$No1 = \begin{bmatrix} .1 = \text{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .2 = \text{arcTan}(\sqrt{3}) & .3 = \text{arcCos}\left(\frac{1}{2}\right) \\ .4 = \text{arcSin}\left(\frac{-1}{2}\right) & .5 = \text{arcSin}\left(\frac{\sqrt{2}}{2}\right) & .6 = \text{arcSin}(0) \\ .7 = \text{arcCos}(-1) & .8 = \text{arcCos}(-2) & .9 = \text{arcTan}(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Tan}(\text{arcTan}(1)) & .2 = \text{Sin}(\text{arcTan}(-1)) & .3 = \text{Cos}\left(\text{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) \\ .4 = \text{Tan}\left(\text{arcCos}\left(\frac{1}{2}\right)\right) & .5 = \text{arcSin}\left(\text{Sin}\left(\frac{\pi}{4}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{\pi}{4}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(-\frac{2\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{13\pi}{6}\right)\right) \\ .10 = \text{Cot}\left(\text{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) & .11 = \text{Csc}\left(\text{arcCos}\left(\text{Sin}\left(\frac{5\pi}{6}\right)\right)\right) & .12 = \text{ArcSin}\left(\text{Cos}\left(\text{ArcSin}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Sec}\left(\text{arcSin}\left(\frac{-1}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{3}}{5}\right)\right) & .3 = \text{Cot}\left(\text{arcTan}\left(\frac{7}{2}\right)\right) \\ .4 = \text{Sin}\left(\text{arcCos}\left(-\frac{\sqrt{7}}{10}\right)\right) & .5 = \text{Tan}\left(\text{arcCos}\left(\frac{-1}{5}\right)\right) & .6 = \text{Tan}\left(\text{arcSin}\left(\frac{4}{5}\right)\right) \\ .7 = \text{Sin}\left(\text{arcTan}\left(\frac{\sqrt{7}}{5}\right)\right) & .8 = \text{Csc}\left(\text{arcCos}\left(\frac{5}{6}\right)\right) & .9 = \text{Cos}(\text{arcTan}(-1)) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{5}\right) + \text{arcSin}\left(\frac{-1}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{3}{7}\right) + \text{arcSin}\left(\frac{2}{5}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcCos}\left(\frac{3}{4}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{1}{2}\right)\right) \\ .5 = \text{arcTan}(\text{Cos}(3\pi) + \text{Sin}(5\pi)) & .6 = \text{Cot}\left(\text{arcCos}\left(\text{Sin}\left(\frac{7\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{13\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9252

$$No1 = \begin{bmatrix} .1 = \arctan\left(\frac{\sqrt{3}}{3}\right) & .2 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) & .3 = \arcsin(0) \\ .4 = \arccos\left(\frac{-1}{2}\right) & .5 = \arccos(1) & .6 = \arctan(-\sqrt{3}) \\ .7 = \arccos\left(\frac{\sqrt{2}}{2}\right) & .8 = \arcsin(-7) & .9 = \arcsin\left(\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \sin\left(\arcsin\left(\frac{-1}{2}\right)\right) & .2 = \tan\left(\arcsin\left(\frac{1}{2}\right)\right) & .3 = \sin(\arctan(-\sqrt{3})) \\ .4 = \cos\left(\arcsin\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \arccos\left(\cos\left(\frac{\pi}{6}\right)\right) & .6 = \arccos\left(\sin\left(\frac{\pi}{4}\right)\right) \\ .7 = \arcsin\left(\sin\left(\frac{11\pi}{6}\right)\right) & .8 = \arccos\left(\cos\left(-\frac{2\pi}{3}\right)\right) & .9 = \arctan\left(\tan\left(-\frac{5\pi}{6}\right)\right) \\ .10 = \cot\left(\arcsin\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \tan\left(\arccos\left(\sin\left(-\frac{13\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\cos\left(\mathrm{ArcSin}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \sec\left(\arctan\left(\frac{\sqrt{7}}{5}\right)\right) & .2 = \cos\left(\arcsin\left(-\frac{\sqrt{2}}{5}\right)\right) & .3 = \sin\left(\arccos\left(\frac{\sqrt{3}}{8}\right)\right) \\ .4 = \cot\left(\arcsin\left(\frac{1}{3}\right)\right) & .5 = \cos(\arctan(1)) & .6 = \tan\left(\arccos\left(\frac{-3}{8}\right)\right) \\ .7 = \tan\left(\arcsin\left(\frac{-2}{7}\right)\right) & .8 = \csc\left(\arccos\left(\frac{4}{9}\right)\right) & .9 = \sin\left(\arctan\left(\frac{-2}{3}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{4}{7}\right)\right) & .2 = \cos\left(\arccos\left(\frac{2}{7}\right) + \arcsin\left(\frac{-1}{3}\right)\right) \\ .3 = \sin\left(2\arccos\left(\frac{5}{8}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{5}{6}\right)\right) \\ .5 = \arctan\left(\cos\left(\frac{\pi}{2}\right) + \sin\left(-\frac{11\pi}{2}\right)\right) & .6 = \sec\left(\arccos\left(\sin\left(-\frac{17\pi}{6}\right)\right) + \arcsin\left(\cos\left(\frac{13\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \sin(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \cos(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9312

$$No1 = \begin{bmatrix} .1 = \arcsin\left(\frac{\sqrt{2}}{2}\right) & .2 = \arctan(1) & .3 = \arccos\left(\frac{\sqrt{3}}{2}\right) \\ .4 = \arccos(1) & .5 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) & .6 = \arcsin(3) \\ .7 = \arcsin(0) & .8 = \arctan\left(-\frac{\sqrt{3}}{3}\right) & .9 = \arccos\left(-\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Sin}\left(\arcsin\left(\frac{1}{2}\right)\right) & .2 = \text{Cos}\left(\arcsin\left(\frac{\sqrt{2}}{2}\right)\right) & .3 = \text{Sin}\left(\arccos\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \text{Tan}\left(\arccos\left(\frac{1}{2}\right)\right) & .5 = \arctan\left(\text{Tan}\left(\frac{\pi}{6}\right)\right) & .6 = \arccos\left(\text{Sin}\left(-\frac{\pi}{6}\right)\right) \\ .7 = \arcsin\left(\text{Sin}\left(-\frac{5\pi}{6}\right)\right) & .8 = \arccos\left(\text{Cos}\left(-\frac{\pi}{4}\right)\right) & .9 = \arctan\left(\text{Tan}\left(\frac{5\pi}{6}\right)\right) \\ .10 = \text{Csc}\left(\arcsin\left(-\frac{\sqrt{3}}{2}\right)\right) & .11 = \text{Cot}\left(\arccos\left(\text{Sin}\left(\frac{13\pi}{6}\right)\right)\right) & .12 = \text{ArcSin}\left(\text{Cos}\left(\text{ArcSin}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Tan}\left(\arcsin\left(\frac{1}{2}\right)\right) & .2 = \text{Csc}\left(\arccos\left(-\frac{\sqrt{2}}{3}\right)\right) & .3 = \text{Cos}\left(\arcsin\left(\frac{\sqrt{5}}{6}\right)\right) \\ .4 = \text{Sec}\left(\arctan\left(\frac{4}{7}\right)\right) & .5 = \text{Sin}\left(\arccos\left(\frac{4}{5}\right)\right) & .6 = \text{Sin}\left(\arctan\left(\frac{-6}{5}\right)\right) \\ .7 = \text{Cot}\left(\arcsin\left(\frac{-1}{2}\right)\right) & .8 = \text{Cos}\left(\arctan\left(\frac{\sqrt{6}}{5}\right)\right) & .9 = \text{Tan}\left(\arccos\left(\frac{-2}{3}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\arccos\left(\frac{5}{9}\right) + \arcsin\left(\frac{-4}{5}\right)\right) & .2 = \text{Cos}\left(\arccos\left(\frac{1}{5}\right) + \arcsin\left(\frac{2}{3}\right)\right) \\ .3 = \text{Sin}\left(2\arcsin\left(\frac{1}{6}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{5}{8}\right)\right) \\ .5 = \arctan(\text{Cos}(3\pi) + \text{Sin}(\pi)) & .6 = \text{Csc}\left(\arccos\left(\text{Sin}\left(-\frac{7\pi}{6}\right)\right) + \arcsin\left(\text{Cos}\left(\frac{8\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9397

$$No1 = \begin{bmatrix} .1 = \arccos(-1) & .2 = \arcsin(0) & .3 = \arcsin\left(\frac{-1}{2}\right) \\ .4 = \arccos\left(\frac{\sqrt{2}}{2}\right) & .5 = \arcsin(2) & .6 = \arctan(1) \\ .7 = \arctan\left(-\frac{\sqrt{3}}{3}\right) & .8 = \arccos\left(-\frac{\sqrt{2}}{2}\right) & .9 = \arcsin\left(\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\arccos\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \text{Tan}\left(\arccos\left(\frac{\sqrt{3}}{2}\right)\right) & .3 = \text{Cos}(\arctan(\sqrt{3})) \\ .4 = \text{Sin}\left(\arccos\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \arccos\left(\text{Cos}\left(\frac{5\pi}{6}\right)\right) & .6 = \arccos\left(\text{Sin}\left(\frac{\pi}{3}\right)\right) \\ .7 = \arcsin\left(\text{Sin}\left(\frac{11\pi}{6}\right)\right) & .8 = \arccos\left(\text{Cos}\left(-\frac{5\pi}{6}\right)\right) & .9 = \arctan\left(\text{Tan}\left(\frac{5\pi}{6}\right)\right) \\ .10 = \text{Csc}(\arctan(-\sqrt{3})) & .11 = \text{Cot}\left(\arcsin\left(\text{Cos}\left(\frac{13\pi}{3}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Cot}\left(\arcsin\left(\frac{5}{9}\right)\right) & .2 = \text{Sin}\left(\arccos\left(\frac{\sqrt{2}}{5}\right)\right) & .3 = \text{Sec}\left(\arccos\left(\frac{-3}{5}\right)\right) \\ .4 = \text{Tan}\left(\arcsin\left(\frac{\sqrt{5}}{9}\right)\right) & .5 = \text{Tan}\left(\arccos\left(\frac{5}{9}\right)\right) & .6 = \text{Csc}\left(\arctan\left(\frac{-5}{2}\right)\right) \\ .7 = \text{Sin}\left(\arctan\left(\frac{7}{5}\right)\right) & .8 = \text{Cos}\left(\arcsin\left(\frac{-1}{5}\right)\right) & .9 = \text{Cos}\left(\arctan\left(\frac{\sqrt{2}}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\arccos\left(\frac{5}{7}\right) + \arcsin\left(\frac{2}{5}\right)\right) & .2 = \text{Cos}\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{-2}{5}\right)\right) \\ .3 = \text{Sin}\left(2\arcsin\left(\frac{1}{4}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{2}{3}\right)\right) \\ .5 = \arctan\left(\text{Cos}(\pi) + \text{Sin}\left(-\frac{3\pi}{2}\right)\right) & .6 = \text{Cot}\left(\arccos\left(\text{Sin}\left(-\frac{11\pi}{6}\right)\right) + \arcsin\left(\text{Cos}\left(\frac{10\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9449

$$No1 = \begin{bmatrix} .1 = \arccos\left(\frac{-1}{2}\right) & .2 = \arctan(\sqrt{3}) & .3 = \arcsin\left(\frac{\sqrt{2}}{2}\right) \\ .4 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) & .5 = \arccos(1) & .6 = \arccos\left(\frac{1}{2}\right) \\ .7 = \arcsin(-1) & .8 = \arctan(-1) & .9 = \arcsin(\sqrt{2}) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\arcsin\left(\frac{1}{2}\right)\right) & .2 = \operatorname{Tan}\left(\arcsin\left(\frac{\sqrt{2}}{2}\right)\right) & .3 = \operatorname{Cos}\left(\arcsin\left(\frac{-1}{2}\right)\right) \\ .4 = \operatorname{Sin}\left(\arccos\left(-\frac{\sqrt{2}}{2}\right)\right) & .5 = \arccos\left(\operatorname{Cos}\left(\frac{\pi}{6}\right)\right) & .6 = \arcsin\left(\operatorname{Cos}\left(\frac{3\pi}{4}\right)\right) \\ .7 = \arcsin\left(\operatorname{Sin}\left(-\frac{7\pi}{6}\right)\right) & .8 = \arccos\left(\operatorname{Cos}\left(-\frac{\pi}{3}\right)\right) & .9 = \arctan\left(\operatorname{Tan}\left(-\frac{17\pi}{6}\right)\right) \\ .10 = \operatorname{Csc}(\arctan(\sqrt{3})) & .11 = \operatorname{Sec}\left(\arccos\left(\operatorname{Sin}\left(\frac{13\pi}{6}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Tan}\left(\arccos\left(\frac{5}{9}\right)\right) & .2 = \operatorname{Sec}\left(\arccos\left(\frac{-5}{6}\right)\right) & .3 = \operatorname{Sin}(\arctan(\sqrt{6})) \\ .4 = \operatorname{Cot}\left(\arctan\left(\frac{3}{4}\right)\right) & .5 = \operatorname{Cos}\left(\arcsin\left(\frac{\sqrt{2}}{3}\right)\right) & .6 = \operatorname{Csc}\left(\arcsin\left(\frac{-4}{9}\right)\right) \\ .7 = \operatorname{Cos}\left(\arctan\left(\frac{-1}{7}\right)\right) & .8 = \operatorname{Tan}\left(\arcsin\left(\frac{4}{9}\right)\right) & .9 = \operatorname{Sin}\left(\arccos\left(-\frac{\sqrt{5}}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\arccos\left(\frac{2}{5}\right) + \arcsin\left(\frac{1}{2}\right)\right) & .2 = \operatorname{Cos}\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{-4}{9}\right)\right) \\ .3 = \operatorname{Sin}\left(2\arccos\left(\frac{3}{7}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{1}{4}\right)\right) \\ .5 = \arctan\left(\operatorname{Cos}\left(\frac{7\pi}{2}\right) + \operatorname{Sin}\left(-\frac{11\pi}{2}\right)\right) & .6 = \operatorname{Sec}\left(\arccos\left(\operatorname{Sin}\left(-\frac{13\pi}{6}\right)\right) + \arcsin\left(\operatorname{Cos}\left(\frac{13\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9562

$$No1 = \begin{bmatrix} .1 = \operatorname{arcSin}(0) & .2 = \operatorname{arcTan}\left(\frac{\sqrt{3}}{3}\right) & .3 = \operatorname{arcCos}(-1) \\ .4 = \operatorname{arcTan}(-1) & .5 = \operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right) & .6 = \operatorname{arcSin}(2) \\ .7 = \operatorname{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .8 = \operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right) & .9 = \operatorname{arcSin}\left(\frac{-1}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{\sqrt{3}}{2}\right)\right) & .3 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{-1}{2}\right)\right) \\ .4 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{\pi}{6}\right)\right) & .6 = \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{2\pi}{3}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{17\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(\frac{8\pi}{3}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{7\pi}{6}\right)\right) \\ .10 = \operatorname{Csc}\left(\operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) & .11 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{7\pi}{6}\right)\right)\right) & .12 = \operatorname{ArcCos}\left(\operatorname{Sin}\left(\operatorname{ArcCos}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{-3}{8}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcCos}\left(-\frac{\sqrt{7}}{11}\right)\right) & .3 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{-2}{3}\right)\right) \\ .4 = \operatorname{Sin}(\operatorname{arcTan}(2)) & .5 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{5}{9}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcSin}\left(\frac{\sqrt{7}}{9}\right)\right) \\ .7 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\frac{-1}{2}\right)\right) & .8 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{2}{7}\right)\right) & .9 = \operatorname{Cot}\left(\operatorname{arcTan}\left(\frac{\sqrt{3}}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{1}{2}\right) + \operatorname{arcSin}\left(\frac{-4}{5}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{4}{5}\right) + \operatorname{arcSin}\left(\frac{2}{3}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcSin}\left(\frac{1}{4}\right)\right) & .4 = \cos\left(2\operatorname{arcSin}\left(\frac{1}{2}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}(6\pi) + \operatorname{Sin}\left(\frac{19\pi}{2}\right)\right) & .6 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{13\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{5\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9721

$$No1 = \begin{bmatrix} .1 = \operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right) & .2 = \operatorname{arcTan}(1) & .3 = \operatorname{arcSin}(-1) \\ .4 = \operatorname{arcCos}(3) & .5 = \operatorname{arcTan}(0) & .6 = \operatorname{arcCos}(1) \\ .7 = \operatorname{arcSin}\left(\frac{-1}{2}\right) & .8 = \operatorname{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .9 = \operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .3 = \operatorname{Sin}\left(\operatorname{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) \\ .4 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{\pi}{4}\right)\right) & .6 = \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{\pi}{3}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{5\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(\frac{4\pi}{3}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{17\pi}{6}\right)\right) \\ .10 = \operatorname{Sec}(\operatorname{arcTan}(-\sqrt{3})) & .11 = \operatorname{Sec}\left(\operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{11\pi}{3}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Tan}\left(\operatorname{arcSin}\left(-\frac{\sqrt{7}}{8}\right)\right) & .2 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{\sqrt{5}}{6}\right)\right) & .3 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{-3}{4}\right)\right) \\ .4 = \operatorname{Sec}\left(\operatorname{arcTan}\left(\frac{3}{5}\right)\right) & .5 = \operatorname{Cot}\left(\operatorname{arcCos}\left(\frac{2}{7}\right)\right) & .6 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{-3}{8}\right)\right) \\ .7 = \operatorname{Csc}\left(\operatorname{arcSin}\left(\frac{1}{4}\right)\right) & .8 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{-3}{7}\right)\right) & .9 = \operatorname{Sin}\left(\operatorname{arcTan}\left(-\frac{\sqrt{3}}{5}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{5}{9}\right) + \operatorname{arcSin}\left(\frac{-1}{2}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{1}{2}\right) + \operatorname{arcSin}\left(\frac{5}{7}\right)\right) \\ .3 = \operatorname{Sin}\left(2 \operatorname{arcSin}\left(\frac{5}{7}\right)\right) & .4 = \cos\left(2 \operatorname{arcCos}\left(\frac{1}{2}\right)\right) \\ .5 = \operatorname{arcTan}(\operatorname{Cos}(3\pi) + \operatorname{Sin}(3\pi)) & .6 = \operatorname{Cot}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{5\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{5\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2 \operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2 \operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9789

$$No1 = \begin{bmatrix} .1 = \operatorname{arcCos}\left(\frac{1}{2}\right) & .2 = \operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .3 = \operatorname{arcCos}(-1) \\ .4 = \operatorname{arcSin}\left(-\frac{\sqrt{3}}{2}\right) & .5 = \operatorname{arcCos}\left(\frac{-1}{2}\right) & .6 = \operatorname{arcTan}(-1) \\ .7 = \operatorname{arcSin}(0) & .8 = \operatorname{arcCos}(-3) & .9 = \operatorname{arcTan}\left(\frac{\sqrt{3}}{3}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \operatorname{Cos}(\operatorname{arcTan}(-\sqrt{3})) \\ .4 = \operatorname{Sin}(\operatorname{arcTan}(-1)) & .5 = \operatorname{arcCos}\left(\operatorname{Cos}\left(\frac{5\pi}{6}\right)\right) & .6 = \operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{\pi}{4}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(-\frac{\pi}{6}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{11\pi}{6}\right)\right) \\ .10 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) & .11 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{7\pi}{6}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{-1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{-3}{4}\right)\right) & .2 = \operatorname{Sin}\left(\operatorname{arcTan}\left(\frac{\sqrt{7}}{4}\right)\right) & .3 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{\sqrt{7}}{12}\right)\right) \\ .4 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{-1}{5}\right)\right) & .5 = \operatorname{Sec}\left(\operatorname{arcTan}\left(\frac{1}{3}\right)\right) & .6 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{1}{3}\right)\right) \\ .7 = \operatorname{Cot}\left(\operatorname{arcSin}\left(\frac{2}{7}\right)\right) & .8 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{3}\right)\right) & .9 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{-3}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{1}{6}\right) + \operatorname{arcSin}\left(\frac{1}{2}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{1}{2}\right) + \operatorname{arcSin}\left(\frac{-5}{7}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcSin}\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\operatorname{arcCos}\left(\frac{5}{7}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}(7\pi) + \operatorname{Sin}\left(-\frac{7\pi}{2}\right)\right) & .6 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{17\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(-\frac{2\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9795

$$No1=\begin{bmatrix} .1=\mathrm{arcSin}(-1) & .2=\mathrm{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .3=\mathrm{arcTan}(\sqrt{3}) \\ .4=\mathrm{arcCos}(0) & .5=\mathrm{arcCos}\left(\frac{-1}{2}\right) & .6=\mathrm{arcSin}\left(\frac{\sqrt{2}}{2}\right) \\ .7=\mathrm{arcSin}(\sqrt{3}) & .8=\mathrm{arcSin}\left(-\frac{\sqrt{3}}{2}\right) & .9=\mathrm{arcTan}(-1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2=\begin{bmatrix} .1=\mathrm{Sin}\left(\mathrm{arcSin}\left(-\frac{\sqrt{3}}{2}\right)\right) & .2=\mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) & .3=\mathrm{Sin}\left(\mathrm{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) \\ .4=\mathrm{Tan}\left(\mathrm{arcSin}\left(\frac{1}{2}\right)\right) & .5=\mathrm{arcCos}\left(\mathrm{Cos}\left(\frac{\pi}{4}\right)\right) & .6=\mathrm{arcSin}\left(\mathrm{Cos}\left(\frac{\pi}{6}\right)\right) \\ .7=\mathrm{arcSin}\left(\mathrm{Sin}\left(\frac{5\pi}{6}\right)\right) & .8=\mathrm{arcCos}\left(\mathrm{Cos}\left(\frac{5\pi}{3}\right)\right) & .9=\mathrm{arcTan}\left(\mathrm{Tan}\left(\frac{11\pi}{6}\right)\right) \\ .10=\mathrm{Cot}(\mathrm{arcTan}(\sqrt{3})) & .11=\mathrm{Tan}\left(\mathrm{arcSin}\left(\mathrm{Cos}\left(-\frac{\pi}{3}\right)\right)\right) & .12=\mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3=\begin{bmatrix} .1=\mathrm{Sin}\left(\mathrm{arcTan}\left(\frac{\sqrt{5}}{7}\right)\right) & .2=\mathrm{Cos}\left(\mathrm{arcTan}\left(\frac{-5}{7}\right)\right) & .3=\mathrm{Csc}\left(\mathrm{arcCos}\left(\frac{-5}{8}\right)\right) \\ .4=\mathrm{Sec}\left(\mathrm{arcSin}\left(\frac{\sqrt{7}}{11}\right)\right) & .5=\mathrm{Cot}\left(\mathrm{arcTan}\left(\frac{5}{2}\right)\right) & .6=\mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{\sqrt{3}}{8}\right)\right) \\ .7=\mathrm{Tan}\left(\mathrm{arcSin}\left(\frac{-2}{3}\right)\right) & .8=\mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{3}{5}\right)\right) & .9=\mathrm{Tan}\left(\mathrm{arcCos}\left(\frac{4}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4=\begin{bmatrix} .1=\mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{4}{5}\right)+\mathrm{arcSin}\left(\frac{-4}{9}\right)\right) & .2=\mathrm{Cos}\left(\mathrm{arcCos}\left(\frac{1}{2}\right)+\mathrm{arcSin}\left(\frac{5}{7}\right)\right) \\ .3=\mathrm{Sin}\left(2\,\mathrm{arcCos}\left(\frac{1}{2}\right)\right) & .4=\cos\left(2\,\mathrm{arcCos}\left(\frac{2}{5}\right)\right) \\ .5=\mathrm{arcTan}\left(\mathrm{Cos}(8\pi)+\mathrm{Sin}\left(-\frac{5\pi}{2}\right)\right) & .6=\mathrm{Cot}\left(\mathrm{arcCos}\left(\mathrm{Sin}\left(-\frac{7\pi}{6}\right)\right)+\mathrm{arcSin}\left(\mathrm{Cos}\left(-\frac{\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5=\mathrm{Sin}(2\,\mathrm{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6=\mathrm{Cos}(2\,\mathrm{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9839

$$No1 = \begin{bmatrix} .1 = \text{arcTan}(1) & .2 = \text{arcSin}\left(\frac{\sqrt{2}}{2}\right) & .3 = \text{arcSin}(1) \\ .4 = \text{arcCos}(-1) & .5 = \text{arcCos}\left(\frac{1}{2}\right) & .6 = \text{arcCos}(-2) \\ .7 = \text{arcSin}\left(\frac{-1}{2}\right) & .8 = \text{arcTan}(-\sqrt{3}) & .9 = \text{arcCos}\left(-\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcSin}\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \text{Sin}\left(\text{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) & .3 = \text{Tan}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \text{Cos}\left(\text{arcSin}\left(\frac{1}{2}\right)\right) & .5 = \text{arcTan}\left(\text{Tan}\left(-\frac{\pi}{4}\right)\right) & .6 = \text{arcCos}\left(\text{Sin}\left(\frac{\pi}{4}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(\frac{5\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(-\frac{3\pi}{4}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{13\pi}{6}\right)\right) \\ .10 = \text{Csc}(\text{arcTan}(-\sqrt{3})) & .11 = \text{Cot}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{13\pi}{6}\right)\right)\right) & .12 = \text{ArcSin}\left(\text{Cos}\left(\text{ArcSin}\left(\frac{-1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Tan}\left(\text{arcSin}\left(\frac{5}{9}\right)\right) & .2 = \text{Csc}(\text{arcTan}(\sqrt{6})) & .3 = \text{Tan}\left(\text{arcCos}\left(-\frac{\sqrt{3}}{5}\right)\right) \\ .4 = \text{Cos}\left(\text{arcSin}\left(\frac{-2}{3}\right)\right) & .5 = \text{Sec}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{7}\right)\right) & .6 = \text{Cos}\left(\text{arcTan}\left(\frac{-7}{2}\right)\right) \\ .7 = \text{Sin}\left(\text{arcTan}\left(\frac{7}{4}\right)\right) & .8 = \text{Cot}\left(\text{arcCos}\left(\frac{5}{6}\right)\right) & .9 = \text{Sin}\left(\text{arcCos}\left(\frac{-5}{6}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{2}\right) + \text{arcSin}\left(\frac{-4}{9}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{1}{3}\right) + \text{arcSin}\left(\frac{1}{6}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{1}{5}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{5}{7}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}\left(\frac{\pi}{2}\right) + \text{Sin}\left(-\frac{9\pi}{2}\right)\right) & .6 = \text{Cot}\left(\text{arcCos}\left(\text{Sin}\left(\frac{17\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{10\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9843

$$No1 = \begin{bmatrix} .1 = \text{arcSin}(-1) & .2 = \text{arcCos}(1) & .3 = \text{arcSin}\left(\frac{1}{2}\right) \\ .4 = \text{arcCos}\left(\frac{-1}{2}\right) & .5 = \text{arcCos}\left(\frac{\sqrt{2}}{2}\right) & .6 = \text{arcTan}(-1) \\ .7 = \text{arcTan}\left(\frac{\sqrt{3}}{3}\right) & .8 = \text{arcSin}(-\sqrt{3}) & .9 = \text{arcSin}\left(-\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Tan}(\text{arcTan}(-1)) & .2 = \text{Tan}\left(\text{arcCos}\left(\frac{1}{2}\right)\right) & .3 = \text{Cos}(\text{arcTan}(-\sqrt{3})) \\ .4 = \text{Sin}(\text{arcTan}(\sqrt{3})) & .5 = \text{arcSin}\left(\text{Sin}\left(\frac{\pi}{6}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{5\pi}{6}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(\frac{13\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(-\frac{3\pi}{4}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{7\pi}{6}\right)\right) \\ .10 = \text{Csc}\left(\text{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .11 = \text{Cot}\left(\text{arcCos}\left(\text{Sin}\left(\frac{7\pi}{6}\right)\right)\right) & .12 = \text{ArcSin}\left(\text{Cos}\left(\text{ArcSin}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Sec}\left(\text{arcSin}\left(\frac{3}{8}\right)\right) & .2 = \text{Tan}\left(\text{arcCos}\left(\frac{1}{4}\right)\right) & .3 = \text{Cos}\left(\text{arcSin}\left(\frac{-3}{5}\right)\right) \\ .4 = \text{Tan}\left(\text{arcSin}\left(\frac{\sqrt{7}}{9}\right)\right) & .5 = \text{Cos}\left(\text{arcTan}\left(\frac{2}{7}\right)\right) & .6 = \text{Sin}\left(\text{arcTan}\left(\frac{-4}{3}\right)\right) \\ .7 = \text{Cot}\left(\text{arcCos}\left(\frac{-1}{4}\right)\right) & .8 = \text{Csc}\left(\text{arcTan}\left(\frac{\sqrt{7}}{2}\right)\right) & .9 = \text{Sin}\left(\text{arcCos}\left(\frac{\sqrt{3}}{8}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{4}{7}\right) + \text{arcSin}\left(\frac{-1}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{1}{3}\right) + \text{arcSin}\left(\frac{2}{3}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcCos}\left(\frac{4}{7}\right)\right) & .4 = \cos\left(2\,\text{arcCos}\left(\frac{1}{2}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}(2\pi) + \text{Sin}\left(-\frac{5\pi}{2}\right)\right) & .6 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(\frac{17\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{8\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9854

$$No1 = \begin{bmatrix} .1 = \arccos(0) & .2 = \arccos(-3) & .3 = \arccos\left(\frac{1}{2}\right) \\ .4 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) & .5 = \arctan(1) & .6 = \arccos\left(\frac{-1}{2}\right) \\ .7 = \arctan(-\sqrt{3}) & .8 = \arcsin(1) & .9 = \arcsin\left(\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcsin\left(\frac{\sqrt{3}}{2}\right)\right) & .2 = \mathrm{Cos}(\arctan(1)) & .3 = \mathrm{Sin}\left(\arccos\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \mathrm{Tan}\left(\arccos\left(\frac{\sqrt{3}}{2}\right)\right) & .5 = \arcsin\left(\mathrm{Sin}\left(-\frac{\pi}{3}\right)\right) & .6 = \arcsin\left(\mathrm{Cos}\left(\frac{5\pi}{6}\right)\right) \\ .7 = \arcsin\left(\mathrm{Sin}\left(\frac{13\pi}{6}\right)\right) & .8 = \arccos\left(\mathrm{Cos}\left(\frac{8\pi}{3}\right)\right) & .9 = \arctan\left(\mathrm{Tan}\left(\frac{5\pi}{6}\right)\right) \\ .10 = \mathrm{Cot}\left(\arctan\left(-\frac{\sqrt{3}}{3}\right)\right) & .11 = \mathrm{Tan}\left(\arcsin\left(\mathrm{Cos}\left(-\frac{\pi}{3}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arctan\left(\frac{-7}{2}\right)\right) & .2 = \mathrm{Cos}\left(\arcsin\left(\frac{-3}{8}\right)\right) & .3 = \mathrm{Cos}(\arctan(4)) \\ .4 = \mathrm{Cot}(\arctan(-\sqrt{2})) & .5 = \mathrm{Csc}\left(\arccos\left(\frac{-4}{5}\right)\right) & .6 = \mathrm{Tan}\left(\arccos\left(\frac{5}{9}\right)\right) \\ .7 = \mathrm{Sec}\left(\arcsin\left(\frac{\sqrt{5}}{8}\right)\right) & .8 = \mathrm{Tan}\left(\arcsin\left(\frac{3}{5}\right)\right) & .9 = \mathrm{Sin}\left(\arccos\left(\frac{\sqrt{2}}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{4}{7}\right) + \arcsin\left(\frac{-1}{2}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{4}{7}\right) + \arcsin\left(\frac{2}{7}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arcsin\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{1}{2}\right)\right) \\ .5 = \arctan\left(\mathrm{Cos}\left(\frac{9\pi}{2}\right) + \mathrm{Sin}\left(-\frac{11\pi}{2}\right)\right) & .6 = \mathrm{Sec}\left(\arccos\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(-\frac{5\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.9862

$$No1 = \begin{bmatrix} .1 = \arcsin\left(-\frac{\sqrt{3}}{2}\right) & .2 = \arccos\left(-\frac{\sqrt{2}}{2}\right) & .3 = \arccos\left(\frac{\sqrt{2}}{2}\right) \\ .4 = \arccos(1) & .5 = \arcsin\left(\frac{1}{2}\right) & .6 = \arctan(\sqrt{3}) \\ .7 = \arccos(5) & .8 = \arcsin(0) & .9 = \arctan\left(-\frac{\sqrt{3}}{3}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcsin\left(\frac{-1}{2}\right)\right) & .2 = \mathrm{Tan}\left(\arccos\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \mathrm{Cos}\left(\arctan\left(-\frac{\sqrt{3}}{3}\right)\right) \\ .4 = \mathrm{Sin}\left(\arccos\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \arcsin\left(\mathrm{Sin}\left(-\frac{\pi}{6}\right)\right) & .6 = \arcsin\left(\mathrm{Cos}\left(\frac{\pi}{6}\right)\right) \\ .7 = \arcsin\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right) & .8 = \arccos\left(\mathrm{Cos}\left(\frac{4\pi}{3}\right)\right) & .9 = \arctan\left(\mathrm{Tan}\left(\frac{13\pi}{6}\right)\right) \\ .10 = \mathrm{Cot}\left(\arccos\left(\frac{-1}{2}\right)\right) & .11 = \mathrm{Csc}\left(\arcsin\left(\mathrm{Cos}\left(\frac{11\pi}{3}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arctan\left(\frac{3}{2}\right)\right) & .2 = \mathrm{Sec}\left(\arcsin\left(\frac{2}{3}\right)\right) & .3 = \mathrm{Tan}\left(\arcsin\left(\frac{-4}{5}\right)\right) \\ .4 = \mathrm{Sin}\left(\arccos\left(\frac{4}{5}\right)\right) & .5 = \mathrm{Csc}\left(\arctan\left(\frac{-7}{6}\right)\right) & .6 = \mathrm{Tan}\left(\arccos\left(\frac{\sqrt{2}}{5}\right)\right) \\ .7 = \mathrm{Cos}(\arctan(-\sqrt{5})) & .8 = \mathrm{Cos}\left(\arcsin\left(\frac{\sqrt{5}}{8}\right)\right) & .9 = \mathrm{Cot}\left(\arccos\left(\frac{-1}{5}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{3}{4}\right) + \arcsin\left(\frac{2}{3}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{-5}{8}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arccos\left(\frac{3}{8}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{1}{6}\right)\right) \\ .5 = \arctan(\mathrm{Cos}(3\pi) + \mathrm{Sin}(-5\pi)) & .6 = \mathrm{Sec}\left(\arccos\left(\mathrm{Sin}\left(\frac{13\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(-\frac{2\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.10278

$$No1 = \begin{bmatrix} .1 = \arccos(0) & .2 = \arcsin\left(\frac{-1}{2}\right) & .3 = \arccos(-7) \\ .4 = \arccos\left(\frac{\sqrt{2}}{2}\right) & .5 = \arccos\left(-\frac{\sqrt{3}}{2}\right) & .6 = \arcsin(-1) \\ .7 = \arctan\left(-\frac{\sqrt{3}}{3}\right) & .8 = \arctan(\sqrt{3}) & .9 = \arcsin\left(\frac{1}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Tan}\left(\arctan\left(\frac{\sqrt{3}}{3}\right)\right) & .2 = \mathrm{Sin}\left(\arccos\left(\frac{-1}{2}\right)\right) & .3 = \mathrm{Cos}\left(\arcsin\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \mathrm{Tan}\left(\arcsin\left(\frac{-1}{2}\right)\right) & .5 = \arctan\left(\mathrm{Tan}\left(\frac{\pi}{6}\right)\right) & .6 = \arcsin\left(\mathrm{Cos}\left(\frac{\pi}{6}\right)\right) \\ .7 = \arcsin\left(\mathrm{Sin}\left(-\frac{7\pi}{6}\right)\right) & .8 = \arccos\left(\mathrm{Cos}\left(\frac{5\pi}{3}\right)\right) & .9 = \arctan\left(\mathrm{Tan}\left(\frac{17\pi}{6}\right)\right) \\ .10 = \mathrm{Sec}(\arctan(1)) & .11 = \mathrm{Sec}\left(\arccos\left(\mathrm{Sin}\left(-\frac{11\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcCos}\left(\mathrm{Sin}\left(\mathrm{ArcCos}\left(-\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Tan}\left(\arccos\left(\frac{\sqrt{3}}{4}\right)\right) & .2 = \mathrm{Cos}\left(\arctan\left(\frac{4}{5}\right)\right) & .3 = \mathrm{Cos}\left(\arcsin\left(\frac{\sqrt{2}}{5}\right)\right) \\ .4 = \mathrm{Sin}\left(\arctan\left(-\frac{\sqrt{6}}{7}\right)\right) & .5 = \mathrm{Tan}\left(\arcsin\left(\frac{-2}{3}\right)\right) & .6 = \mathrm{Sec}\left(\arcsin\left(\frac{4}{5}\right)\right) \\ .7 = \mathrm{Sin}\left(\arccos\left(\frac{-5}{9}\right)\right) & .8 = \mathrm{Csc}\left(\arctan\left(\frac{-3}{5}\right)\right) & .9 = \mathrm{Cot}\left(\arccos\left(\frac{3}{4}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{3}{4}\right) + \arcsin\left(\frac{1}{6}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{2}{7}\right) + \arcsin\left(\frac{-1}{2}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arccos\left(\frac{5}{8}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{3}{7}\right)\right) \\ .5 = \arctan(\mathrm{Cos}(\pi) + \mathrm{Sin}(-4\pi)) & .6 = \mathrm{Sec}\left(\arccos\left(\mathrm{Sin}\left(\frac{17\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(-\frac{2\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.10361

$$No1 = \begin{bmatrix} .1 = \text{arcSin}\left(-\frac{\sqrt{2}}{2}\right) & .2 = \text{arcCos}\left(\frac{\sqrt{2}}{2}\right) & .3 = \text{arcSin}(2) \\ .4 = \text{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .5 = \text{arcSin}(-1) & .6 = \text{arcCos}(1) \\ .7 = \text{arcCos}\left(\frac{-1}{2}\right) & .8 = \text{arcTan}(-1) & .9 = \text{arcTan}(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Tan}\left(\text{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) & .2 = \text{Cos}\left(\text{arcSin}\left(\frac{-1}{2}\right)\right) & .3 = \text{Tan}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \text{Sin}(\text{arcTan}(1)) & .5 = \text{arcCos}\left(\text{Cos}\left(\frac{3\pi}{4}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{\pi}{3}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{17\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(-\frac{3\pi}{4}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{11\pi}{6}\right)\right) \\ .10 = \text{Csc}\left(\text{arcCos}\left(\frac{1}{2}\right)\right) & .11 = \text{Csc}\left(\text{arcSin}\left(\text{Cos}\left(-\frac{\pi}{4}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Tan}\left(\text{arcSin}\left(-\frac{\sqrt{5}}{7}\right)\right) & .2 = \text{Sin}\left(\text{arcCos}\left(\frac{5}{8}\right)\right) & .3 = \text{Cot}\left(\text{arcSin}\left(\frac{5}{6}\right)\right) \\ .4 = \text{Cos}\left(\text{arcSin}\left(\frac{-4}{5}\right)\right) & .5 = \text{Sec}(\text{arcTan}(\sqrt{2})) & .6 = \text{Cos}(\text{arcTan}(-5)) \\ .7 = \text{Tan}\left(\text{arcCos}\left(\frac{-5}{7}\right)\right) & .8 = \text{Sin}\left(\text{arcTan}\left(\frac{5}{7}\right)\right) & .9 = \text{Csc}\left(\text{arcCos}\left(-\frac{\sqrt{7}}{12}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{2}\right) + \text{arcSin}\left(\frac{5}{8}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{3}{8}\right) + \text{arcSin}\left(\frac{-1}{4}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcCos}\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{1}{2}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}(\pi) + \text{Sin}\left(-\frac{15\pi}{2}\right)\right) & .6 = \text{Cot}\left(\text{arcCos}\left(\text{Sin}\left(\frac{13\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{10\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.10532

$$No1 = \begin{bmatrix} .1 = \arctan(-\sqrt{3}) & .2 = \arctan\left(\frac{\sqrt{3}}{3}\right) & .3 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) \\ .4 = \arccos\left(\frac{\sqrt{2}}{2}\right) & .5 = \arccos(-5) & .6 = \arcsin\left(\frac{\sqrt{3}}{2}\right) \\ .7 = \arcsin(1) & .8 = \arccos(-1) & .9 = \arccos\left(-\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\arccos\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \mathrm{Tan}\left(\arcsin\left(\frac{\sqrt{2}}{2}\right)\right) & .3 = \mathrm{Cos}\left(\arcsin\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \mathrm{Sin}\left(\arccos\left(\frac{-1}{2}\right)\right) & .5 = \arcsin\left(\mathrm{Sin}\left(\frac{\pi}{4}\right)\right) & .6 = \arccos\left(\mathrm{Sin}\left(\frac{\pi}{6}\right)\right) \\ .7 = \arcsin\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right) & .8 = \arccos\left(\mathrm{Cos}\left(\frac{11\pi}{3}\right)\right) & .9 = \arctan\left(\mathrm{Tan}\left(\frac{13\pi}{6}\right)\right) \\ .10 = \mathrm{Cot}(\arctan(1)) & .11 = \mathrm{Cot}\left(\arcsin\left(\mathrm{Cos}\left(-\frac{\pi}{4}\right)\right)\right) & .12 = \mathrm{ArcCos}\left(\mathrm{Sin}\left(\mathrm{ArcCos}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Tan}\left(\arccos\left(-\frac{\sqrt{3}}{7}\right)\right) & .2 = \mathrm{Sin}\left(\arctan\left(\frac{1}{5}\right)\right) & .3 = \mathrm{Sec}\left(\arcsin\left(\frac{4}{7}\right)\right) \\ .4 = \mathrm{Cot}\left(\arccos\left(\frac{-5}{7}\right)\right) & .5 = \mathrm{Cos}\left(\arcsin\left(-\frac{\sqrt{2}}{5}\right)\right) & .6 = \mathrm{Cos}\left(\arctan\left(\frac{-1}{7}\right)\right) \\ .7 = \mathrm{Sin}\left(\arccos\left(\frac{1}{6}\right)\right) & .8 = \mathrm{Tan}\left(\arcsin\left(\frac{-4}{7}\right)\right) & .9 = \mathrm{Csc}(\arctan(-\sqrt{5})) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{3}{8}\right) + \arcsin\left(\frac{-3}{8}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{1}{6}\right) + \arcsin\left(\frac{1}{2}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arccos\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{5}{7}\right)\right) \\ .5 = \arctan(\mathrm{Cos}(4\pi) + \mathrm{Sin}(5\pi)) & .6 = \mathrm{Cot}\left(\arccos\left(\mathrm{Sin}\left(\frac{17\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(\frac{8\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.10688

$$No1 = \begin{bmatrix} .1 = \text{arcCos}(-\sqrt{3}) & .2 = \text{arcCos}\left(\frac{-1}{2}\right) & .3 = \text{arcCos}(-1) \\ .4 = \text{arcSin}\left(\frac{\sqrt{2}}{2}\right) & .5 = \text{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .6 = \text{arcTan}(0) \\ .7 = \text{arcSin}(0) & .8 = \text{arcSin}\left(-\frac{\sqrt{2}}{2}\right) & .9 = \text{arcTan}(-\sqrt{3}) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\text{arcCos}\left(\frac{\sqrt{3}}{2}\right)\right) & .2 = \text{Tan}\left(\text{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) & .3 = \text{Sin}(\text{arcTan}(-\sqrt{3})) \\ .4 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{3}}{2}\right)\right) & .5 = \text{arcSin}\left(\text{Sin}\left(\frac{\pi}{4}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{5\pi}{6}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(\frac{4\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{17\pi}{6}\right)\right) \\ .10 = \text{Cot}\left(\text{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .11 = \text{Tan}\left(\text{arcCos}\left(\text{Sin}\left(\frac{13\pi}{6}\right)\right)\right) & .12 = \text{ArcSin}\left(\text{Cos}\left(\text{ArcSin}\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{5}}{9}\right)\right) & .2 = \text{Sec}\left(\text{arcTan}\left(-\frac{\sqrt{3}}{4}\right)\right) & .3 = \text{Sin}\left(\text{arcTan}\left(\frac{1}{4}\right)\right) \\ .4 = \text{Cos}\left(\text{arcTan}\left(\frac{-1}{4}\right)\right) & .5 = \text{Csc}\left(\text{arcSin}\left(\frac{-4}{5}\right)\right) & .6 = \text{Tan}\left(\text{arcCos}\left(\frac{1}{2}\right)\right) \\ .7 = \text{Sin}\left(\text{arcCos}\left(\frac{\sqrt{5}}{8}\right)\right) & .8 = \text{Cot}\left(\text{arcCos}\left(\frac{-4}{7}\right)\right) & .9 = \text{Tan}\left(\text{arcSin}\left(\frac{4}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{3}{8}\right) + \text{arcSin}\left(\frac{-1}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{5}{6}\right) + \text{arcSin}\left(\frac{5}{8}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{1}{3}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{3}{7}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}(3\pi) + \text{Sin}\left(-\frac{3\pi}{2}\right)\right) & .6 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(\frac{5\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{10\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.10868

$$No1 = \begin{bmatrix} .1 = \text{arcSin}(7) & .2 = \text{arcCos}(1) & .3 = \text{arcCos}\left(\frac{1}{2}\right) \\ .4 = \text{arcTan}(1) & .5 = \text{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .6 = \text{arcSin}\left(-\frac{\sqrt{3}}{2}\right) \\ .7 = \text{arcCos}\left(\frac{-1}{2}\right) & .8 = \text{arcSin}(-1) & .9 = \text{arcTan}(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\text{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{3}}{2}\right)\right) & .3 = \text{Sin}\left(\text{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \text{Tan}\left(\text{arcCos}\left(\frac{1}{2}\right)\right) & .5 = \text{arcSin}\left(\text{Sin}\left(\frac{\pi}{3}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{\pi}{3}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{17\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(\frac{10\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(\frac{11\pi}{6}\right)\right) \\ .10 = \text{Cot}(\text{arcTan}(1)) & .11 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(\frac{13\pi}{6}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Sec}\left(\text{arcTan}\left(\frac{2}{5}\right)\right) & .2 = \text{Sin}\left(\text{arcCos}\left(\frac{-3}{5}\right)\right) & .3 = \text{Tan}\left(\text{arcSin}\left(\frac{1}{2}\right)\right) \\ .4 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{5}}{8}\right)\right) & .5 = \text{Csc}\left(\text{arcCos}\left(\frac{\sqrt{7}}{8}\right)\right) & .6 = \text{Sin}\left(\text{arcTan}\left(\frac{\sqrt{3}}{2}\right)\right) \\ .7 = \text{Cos}\left(\text{arcTan}\left(\frac{-6}{5}\right)\right) & .8 = \text{Cot}\left(\text{arcSin}\left(\frac{-3}{4}\right)\right) & .9 = \text{Tan}\left(\text{arcCos}\left(\frac{5}{9}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{2}{5}\right) + \text{arcSin}\left(\frac{-2}{3}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{3}{7}\right) + \text{arcSin}\left(\frac{4}{7}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcCos}\left(\frac{1}{6}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{1}{2}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}(3\pi) + \text{Sin}\left(\frac{17\pi}{2}\right)\right) & .6 = \text{Csc}\left(\text{arcCos}\left(\text{Sin}\left(\frac{5\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(-\frac{\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.10900

$$No1 = \begin{bmatrix} .1 = \operatorname{arcCos}(1) & .2 = \operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .3 = \operatorname{arcSin}\left(\frac{-1}{2}\right) \\ .4 = \operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .5 = \operatorname{arcSin}(0) & .6 = \operatorname{arcTan}\left(\frac{\sqrt{3}}{3}\right) \\ .7 = \operatorname{arcCos}(-\sqrt{3}) & .8 = \operatorname{arcTan}(-1) & .9 = \operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{-1}{2}\right)\right) & .3 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{1}{2}\right)\right) \\ .4 = \operatorname{Cos}(\operatorname{arcTan}(-1)) & .5 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{\pi}{4}\right)\right) & .6 = \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{\pi}{6}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{11\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(-\frac{\pi}{3}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{11\pi}{6}\right)\right) \\ .10 = \operatorname{Sec}\left(\operatorname{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) & .11 = \operatorname{Csc}\left(\operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{7\pi}{3}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{5}\right)\right) & .2 = \operatorname{Sin}\left(\operatorname{arcTan}\left(\frac{5}{7}\right)\right) & .3 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{3}\right)\right) \\ .4 = \operatorname{Cot}\left(\operatorname{arcSin}\left(\frac{4}{9}\right)\right) & .5 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{5}{9}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcTan}\left(\frac{-1}{5}\right)\right) \\ .7 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\frac{-3}{5}\right)\right) & .8 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{-2}{7}\right)\right) & .9 = \operatorname{Cos}(\operatorname{arcTan}(-\sqrt{3})) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{5}{8}\right) + \operatorname{arcSin}\left(\frac{1}{2}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{1}{5}\right) + \operatorname{arcSin}\left(\frac{-4}{5}\right)\right) \\ .3 = \operatorname{Sin}\left(2 \operatorname{arcSin}\left(\frac{2}{5}\right)\right) & .4 = \cos\left(2 \operatorname{arcSin}\left(\frac{5}{9}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}(5\pi) + \operatorname{Sin}\left(-\frac{15\pi}{2}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{17\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(-\frac{\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2 \operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2 \operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.11693

$$No1 = \begin{bmatrix} .1 = \arcsin(1) & .2 = \arctan(0) & .3 = \arccos(0) \\ .4 = \arcsin\left(\frac{\sqrt{2}}{2}\right) & .5 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) & .6 = \arctan\left(-\frac{\sqrt{3}}{3}\right) \\ .7 = \arccos\left(\frac{1}{2}\right) & .8 = \arccos(-5) & .9 = \arccos\left(\frac{-1}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\arccos\left(\frac{\sqrt{3}}{2}\right)\right) & .2 = \sin\left(\arccos\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \cos\left(\arctan\left(\frac{\sqrt{3}}{3}\right)\right) \\ .4 = \tan\left(\arccos\left(\frac{-1}{2}\right)\right) & .5 = \arcsin\left(\sin\left(\frac{\pi}{4}\right)\right) & .6 = \arcsin\left(\cos\left(\frac{5\pi}{6}\right)\right) \\ .7 = \arcsin\left(\sin\left(-\frac{7\pi}{6}\right)\right) & .8 = \arccos\left(\cos\left(\frac{11\pi}{3}\right)\right) & .9 = \arctan\left(\tan\left(\frac{7\pi}{6}\right)\right) \\ .10 = \cot\left(\arccos\left(\frac{\sqrt{2}}{2}\right)\right) & .11 = \csc\left(\arccos\left(\sin\left(\frac{17\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\cos\left(\mathrm{ArcSin}\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \tan\left(\arccos\left(-\frac{\sqrt{2}}{7}\right)\right) & .2 = \cos\left(\arcsin\left(\frac{4}{7}\right)\right) & .3 = \sin\left(\arctan\left(\frac{\sqrt{3}}{7}\right)\right) \\ .4 = \tan\left(\arcsin\left(\frac{\sqrt{5}}{7}\right)\right) & .5 = \cos(\arctan(-3)) & .6 = \sec\left(\arctan\left(\frac{3}{4}\right)\right) \\ .7 = \cot\left(\arccos\left(\frac{3}{8}\right)\right) & .8 = \sin\left(\arccos\left(\frac{-5}{9}\right)\right) & .9 = \csc\left(\arcsin\left(\frac{-1}{2}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{4}{9}\right) + \arcsin\left(\frac{2}{5}\right)\right) & .2 = \cos\left(\arccos\left(\frac{3}{5}\right) + \arcsin\left(\frac{-3}{7}\right)\right) \\ .3 = \sin\left(2\arcsin\left(\frac{2}{5}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{1}{6}\right)\right) \\ .5 = \arctan\left(\cos\left(\frac{\pi}{2}\right) + \sin\left(-\frac{11\pi}{2}\right)\right) & .6 = \csc\left(\arccos\left(\sin\left(-\frac{11\pi}{6}\right)\right) + \arcsin\left(\cos\left(-\frac{2\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \sin(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \cos(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.12097

$$No1 = \begin{bmatrix} .1 = \arcSin\left(\frac{\sqrt{3}}{2}\right) & .2 = \arcCos(-7) & .3 = \arcTan(-1) \\ .4 = \arcSin(-1) & .5 = \arcCos\left(-\frac{\sqrt{3}}{2}\right) & .6 = \arcCos(0) \\ .7 = \arcTan(\sqrt{3}) & .8 = \arcCos\left(\frac{1}{2}\right) & .9 = \arcSin\left(\frac{-1}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcSin\left(\frac{\sqrt{3}}{2}\right)\right) & .2 = \mathrm{Tan}\left(\arcCos\left(\frac{1}{2}\right)\right) & .3 = \mathrm{Cos}(\arcTan(-\sqrt{3})) \\ .4 = \mathrm{Sin}(\arcTan(\sqrt{3})) & .5 = \arcSin\left(\mathrm{Sin}\left(\frac{\pi}{6}\right)\right) & .6 = \arcSin\left(\mathrm{Cos}\left(\frac{3\pi}{4}\right)\right) \\ .7 = \arcSin\left(\mathrm{Sin}\left(\frac{13\pi}{6}\right)\right) & .8 = \arcCos\left(\mathrm{Cos}\left(-\frac{\pi}{3}\right)\right) & .9 = \arcTan\left(\mathrm{Tan}\left(\frac{5\pi}{6}\right)\right) \\ .10 = \mathrm{Csc}\left(\arcCos\left(-\frac{\sqrt{3}}{2}\right)\right) & .11 = \mathrm{Cot}\left(\arcCos\left(\mathrm{Sin}\left(-\frac{13\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(\frac{-1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Csc}\left(\arcSin\left(\frac{3}{5}\right)\right) & .2 = \mathrm{Cos}\left(\arcTan\left(\frac{\sqrt{7}}{4}\right)\right) & .3 = \mathrm{Sec}\left(\arcTan\left(\frac{-4}{3}\right)\right) \\ .4 = \mathrm{Tan}\left(\arcCos\left(\frac{5}{7}\right)\right) & .5 = \mathrm{Sin}\left(\arcCos\left(\frac{\sqrt{3}}{5}\right)\right) & .6 = \mathrm{Tan}\left(\arcSin\left(\frac{-1}{6}\right)\right) \\ .7 = \mathrm{Cot}\left(\arcCos\left(\frac{-5}{8}\right)\right) & .8 = \mathrm{Cos}\left(\arcSin\left(-\frac{\sqrt{3}}{7}\right)\right) & .9 = \mathrm{Sin}(\arcTan(3)) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcCos\left(\frac{2}{7}\right) + \arcSin\left(\frac{-5}{6}\right)\right) & .2 = \mathrm{Cos}\left(\arcCos\left(\frac{4}{9}\right) + \arcSin\left(\frac{2}{3}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arcCos\left(\frac{2}{7}\right)\right) & .4 = \cos\left(2\arcCos\left(\frac{1}{2}\right)\right) \\ .5 = \arcTan(\mathrm{Cos}(\pi) + \mathrm{Sin}(-2\pi)) & .6 = \mathrm{Sec}\left(\arcCos\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right) + \arcSin\left(\mathrm{Cos}\left(\frac{7\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arcCos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arcSin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.12172

$$No1 = \begin{bmatrix} .1 = \text{arcTan}(0) & .2 = \text{arcSin}\left(\frac{-1}{2}\right) & .3 = \text{arcCos}(1) \\ .4 = \text{arcSin}(-1) & .5 = \text{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .6 = \text{arcSin}(5) \\ .7 = \text{arcTan}(1) & .8 = \text{arcCos}\left(\frac{1}{2}\right) & .9 = \text{arcSin}\left(\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\text{arcCos}\left(\frac{-1}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \text{Sin}\left(\text{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \text{Tan}\left(\text{arcSin}\left(-\frac{\sqrt{3}}{2}\right)\right) & .5 = \text{arcCos}\left(\text{Cos}\left(\frac{3\pi}{4}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{2\pi}{3}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(\frac{13\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(\frac{13\pi}{6}\right)\right) \\ .10 = \text{Csc}\left(\text{arcSin}\left(\frac{1}{2}\right)\right) & .11 = \text{Cot}\left(\text{arcCos}\left(\text{Sin}\left(\frac{11\pi}{6}\right)\right)\right) & .12 = \text{ArcSin}\left(\text{Cos}\left(\text{ArcSin}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Tan}\left(\text{arcCos}\left(\frac{-5}{7}\right)\right) & .2 = \text{Cos}\left(\text{arcTan}\left(\frac{-5}{3}\right)\right) & .3 = \text{Cot}\left(\text{arcCos}\left(\frac{5}{7}\right)\right) \\ .4 = \text{Sec}\left(\text{arcTan}\left(\frac{7}{6}\right)\right) & .5 = \text{Tan}\left(\text{arcSin}\left(\frac{1}{6}\right)\right) & .6 = \text{Sin}\left(\text{arcTan}\left(-\frac{\sqrt{7}}{6}\right)\right) \\ .7 = \text{Cos}\left(\text{arcSin}\left(\frac{-5}{9}\right)\right) & .8 = \text{Csc}\left(\text{arcSin}\left(\frac{\sqrt{6}}{7}\right)\right) & .9 = \text{Sin}\left(\text{arcCos}\left(-\frac{\sqrt{5}}{8}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{3}{5}\right) + \text{arcSin}\left(\frac{2}{3}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{1}{3}\right) + \text{arcSin}\left(\frac{-3}{5}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcCos}\left(\frac{1}{4}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{3}{5}\right)\right) \\ .5 = \text{arcTan}(\text{Cos}(\pi) + \text{Sin}(4\pi)) & .6 = \text{Csc}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{11\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(-\frac{\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.12173

$$No1 = \begin{bmatrix} .1 = \operatorname{arcTan}(\sqrt{3}) & .2 = \operatorname{arcCos}\left(\frac{1}{2}\right) & .3 = \operatorname{arcTan}\left(-\frac{\sqrt{3}}{3}\right) \\ .4 = \operatorname{arcSin}(-\sqrt{2}) & .5 = \operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .6 = \operatorname{arcCos}\left(\frac{-1}{2}\right) \\ .7 = \operatorname{arcSin}\left(-\frac{\sqrt{2}}{2}\right) & .8 = \operatorname{arcCos}(-1) & .9 = \operatorname{arcSin}(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{-1}{2}\right)\right) & .3 = \operatorname{Cos}(\operatorname{arcTan}(-1)) \\ .4 = \operatorname{Sin}\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .5 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{\pi}{6}\right)\right) & .6 = \operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{\pi}{3}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{5\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(\frac{5\pi}{3}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{7\pi}{6}\right)\right) \\ .10 = \operatorname{Cot}(\operatorname{arcTan}(-\sqrt{3})) & .11 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{13\pi}{6}\right)\right)\right) & .12 = \operatorname{ArcCos}\left(\operatorname{Sin}\left(\operatorname{ArcCos}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{-3}{4}\right)\right) & .2 = \operatorname{Cot}\left(\operatorname{arcTan}\left(\frac{-1}{6}\right)\right) & .3 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{5}{8}\right)\right) \\ .4 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{1}{5}\right)\right) & .5 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{5}{2}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{-1}{4}\right)\right) \\ .7 = \operatorname{Sec}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{5}\right)\right) & .8 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{\sqrt{7}}{12}\right)\right) & .9 = \operatorname{Sin}\left(\operatorname{arcTan}\left(\frac{\sqrt{6}}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{1}{2}\right) + \operatorname{arcSin}\left(\frac{4}{9}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{1}{2}\right) + \operatorname{arcSin}\left(\frac{-4}{5}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcSin}\left(\frac{2}{5}\right)\right) & .4 = \cos\left(2\operatorname{arcSin}\left(\frac{1}{2}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}\left(\frac{9\pi}{2}\right) + \operatorname{Sin}\left(\frac{\pi}{2}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{17\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(-\frac{\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.12180

$$No1 = \begin{bmatrix} .1 = \arcsin(1) & .2 = \text{arcCos}\left(-\frac{\sqrt{3}}{2}\right) & .3 = \text{arcTan}(0) \\ .4 = \text{arcSin}\left(\frac{1}{2}\right) & .5 = \text{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .6 = \text{arcSin}(3) \\ .7 = \text{arcSin}\left(-\frac{\sqrt{2}}{2}\right) & .8 = \text{arcTan}(-\sqrt{3}) & .9 = \text{arcCos}(-1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Tan}(\text{arcTan}(-\sqrt{3})) & .2 = \text{Sin}\left(\text{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) & .3 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \text{Tan}\left(\text{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \text{arcCos}\left(\text{Cos}\left(\frac{3\pi}{4}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{2\pi}{3}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(-\frac{3\pi}{4}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(\frac{13\pi}{6}\right)\right) \\ .10 = \text{Csc}\left(\text{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) & .11 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{7\pi}{6}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(\frac{-1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Cot}\left(\text{arcCos}\left(\frac{1}{3}\right)\right) & .2 = \text{Tan}\left(\text{arcSin}\left(\frac{-1}{2}\right)\right) & .3 = \text{Tan}\left(\text{arcCos}\left(-\frac{\sqrt{5}}{9}\right)\right) \\ .4 = \text{Cos}(\text{arcTan}(-4)) & .5 = \text{Sec}\left(\text{arcTan}\left(\frac{1}{6}\right)\right) & .6 = \text{Csc}\left(\text{arcSin}\left(\frac{1}{4}\right)\right) \\ .7 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{5}}{9}\right)\right) & .8 = \text{Sin}\left(\text{arcTan}\left(\frac{\sqrt{2}}{3}\right)\right) & .9 = \text{Sin}\left(\text{arcCos}\left(\frac{-5}{9}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{3}{5}\right) + \text{arcSin}\left(\frac{-3}{4}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{1}{2}\right) + \text{arcSin}\left(\frac{4}{5}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcCos}\left(\frac{2}{7}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{2}{3}\right)\right) \\ .5 = \text{arcTan}(\text{Cos}(\pi) + \text{Sin}(-2\pi)) & .6 = \text{Csc}\left(\text{arcCos}\left(\text{Sin}\left(\frac{11\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(-\frac{\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.12256

$$No1 = \begin{bmatrix} .1 = \operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .2 = \operatorname{arcSin}(1) & .3 = \operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right) \\ .4 = \operatorname{arcTan}(0) & .5 = \operatorname{arcCos}(-1) & .6 = \operatorname{arcCos}(-5) \\ .7 = \operatorname{arcTan}(1) & .8 = \operatorname{arcSin}\left(\frac{-1}{2}\right) & .9 = \operatorname{arcSin}\left(\frac{1}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) & .2 = \operatorname{Sin}\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .3 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{1}{2}\right)\right) \\ .4 = \operatorname{Cos}\left(\operatorname{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) & .5 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{\pi}{4}\right)\right) & .6 = \operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{\pi}{3}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(\frac{13\pi}{3}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{5\pi}{6}\right)\right) \\ .10 = \operatorname{Csc}\left(\operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\operatorname{Cos}\left(-\frac{2\pi}{3}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{-1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Cot}\left(\operatorname{arcCos}\left(\frac{1}{5}\right)\right) & .2 = \operatorname{Csc}\left(\operatorname{arcSin}\left(\frac{-1}{4}\right)\right) & .3 = \operatorname{Cos}\left(\operatorname{arcSin}\left(-\frac{\sqrt{7}}{9}\right)\right) \\ .4 = \operatorname{Sin}(\operatorname{arcTan}(-6)) & .5 = \operatorname{Sec}\left(\operatorname{arcTan}\left(-\frac{\sqrt{2}}{5}\right)\right) & .6 = \operatorname{Tan}\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{4}\right)\right) \\ .7 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{-2}{7}\right)\right) & .8 = \operatorname{Cos}(\operatorname{arcTan}(5)) & .9 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{5}{9}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{1}{2}\right) + \operatorname{arcSin}\left(\frac{3}{7}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{5}{7}\right) + \operatorname{arcSin}\left(\frac{-5}{6}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcSin}\left(\frac{1}{6}\right)\right) & .4 = \cos\left(2\operatorname{arcSin}\left(\frac{1}{3}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}(5\pi) + \operatorname{Sin}\left(-\frac{11\pi}{2}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{5\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{4\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.12278

$$No1 = \begin{bmatrix} .1 = \text{arcTan}(-1) & .2 = \text{arcTan}(\sqrt{3}) & .3 = \text{arcSin}\left(\frac{\sqrt{2}}{2}\right) \\ .4 = \text{arcCos}\left(-\frac{\sqrt{3}}{2}\right) & .5 = \text{arcCos}\left(\frac{1}{2}\right) & .6 = \text{arcSin}(2) \\ .7 = \text{arcSin}\left(\frac{-1}{2}\right) & .8 = \text{arcSin}(1) & .9 = \text{arcCos}(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\text{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \text{Sin}(\text{arcTan}(\sqrt{3})) & .3 = \text{Cos}(\text{arcTan}(-1)) \\ .4 = \text{Tan}\left(\text{arcSin}\left(\frac{-1}{2}\right)\right) & .5 = \text{arcTan}\left(\text{Tan}\left(-\frac{\pi}{6}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{\pi}{4}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{7\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(-\frac{2\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(\frac{17\pi}{6}\right)\right) \\ .10 = \text{Cot}\left(\text{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \text{Csc}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{11\pi}{6}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Csc}\left(\text{arcSin}\left(\frac{-5}{6}\right)\right) & .2 = \text{Cos}\left(\text{arcTan}\left(-\frac{\sqrt{7}}{2}\right)\right) & .3 = \text{Sec}\left(\text{arcTan}\left(\frac{-6}{5}\right)\right) \\ .4 = \text{Tan}\left(\text{arcCos}\left(\frac{-1}{5}\right)\right) & .5 = \text{Tan}\left(\text{arcSin}\left(\frac{3}{5}\right)\right) & .6 = \text{Sin}\left(\text{arcTan}\left(\frac{5}{2}\right)\right) \\ .7 = \text{Cot}\left(\text{arcCos}\left(-\frac{\sqrt{3}}{8}\right)\right) & .8 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{5}\right)\right) & .9 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{7}}{10}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{2}{3}\right) + \text{arcSin}\left(\frac{1}{6}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{1}{5}\right) + \text{arcSin}\left(\frac{-1}{2}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{3}{8}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{5}{8}\right)\right) \\ .5 = \text{arcTan}(\text{Cos}(5\pi) + \text{Sin}(5\pi)) & .6 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(\frac{7\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{11\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.12482

$$No1 = \begin{bmatrix} .1 = \arcsin\left(\frac{\sqrt{3}}{2}\right) & .2 = \arctan\left(\frac{\sqrt{3}}{3}\right) & .3 = \arcsin(0) \\ .4 = \arccos\left(\frac{-1}{2}\right) & .5 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) & .6 = \arctan(0) \\ .7 = \arcsin(\sqrt{2}) & .8 = \arccos\left(\frac{1}{2}\right) & .9 = \arccos(1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcsin\left(\frac{\sqrt{2}}{2}\right)\right) & .2 = \mathrm{Cos}\left(\arcsin\left(\frac{-1}{2}\right)\right) & .3 = \mathrm{Tan}\left(\arcsin\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \mathrm{Sin}(\arctan(1)) & .5 = \arctan\left(\mathrm{Tan}\left(\frac{\pi}{4}\right)\right) & .6 = \arccos\left(\mathrm{Sin}\left(-\frac{\pi}{4}\right)\right) \\ .7 = \arcsin\left(\mathrm{Sin}\left(-\frac{17\pi}{6}\right)\right) & .8 = \arccos\left(\mathrm{Cos}\left(-\frac{\pi}{3}\right)\right) & .9 = \arctan\left(\mathrm{Tan}\left(-\frac{11\pi}{6}\right)\right) \\ .10 = \mathrm{Csc}\left(\arccos\left(\frac{-1}{2}\right)\right) & .11 = \mathrm{Tan}\left(\arcsin\left(\mathrm{Cos}\left(-\frac{\pi}{4}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Sin}(\arctan(4)) & .2 = \mathrm{Tan}\left(\arcsin\left(-\frac{\sqrt{3}}{4}\right)\right) & .3 = \mathrm{Tan}\left(\arccos\left(\frac{\sqrt{2}}{7}\right)\right) \\ .4 = \mathrm{Sec}\left(\arcsin\left(\frac{-4}{5}\right)\right) & .5 = \mathrm{Cos}\left(\arctan\left(\frac{\sqrt{7}}{5}\right)\right) & .6 = \mathrm{Csc}\left(\arccos\left(\frac{-5}{6}\right)\right) \\ .7 = \mathrm{Cot}\left(\arctan\left(\frac{-6}{5}\right)\right) & .8 = \mathrm{Sin}\left(\arccos\left(\frac{3}{5}\right)\right) & .9 = \mathrm{Cos}\left(\arcsin\left(\frac{3}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{5}{9}\right) + \arcsin\left(\frac{1}{2}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{-1}{2}\right)\right) \\ .3 = \mathrm{Sin}\left(2 \arccos\left(\frac{3}{7}\right)\right) & .4 = \cos\left(2 \arcsin\left(\frac{2}{5}\right)\right) \\ .5 = \arctan(\mathrm{Cos}(2\pi) + \mathrm{Sin}(-2\pi)) & .6 = \mathrm{Csc}\left(\arccos\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(\frac{11\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2 \arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2 \arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.12586

$$No1 = \begin{bmatrix} .1 = \arcsin\left(\frac{1}{2}\right) & .2 = \arcsin(1) & .3 = \arctan(-\sqrt{3}) \\ .4 = \arcsin\left(-\frac{\sqrt{3}}{2}\right) & .5 = \arcsin(-\sqrt{2}) & .6 = \arccos\left(-\frac{\sqrt{2}}{2}\right) \\ .7 = \arccos(-1) & .8 = \arctan(0) & .9 = \arccos\left(\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \tan(\arctan(-1)) & .2 = \tan\left(\arccos\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \cos\left(\arctan\left(-\frac{\sqrt{3}}{3}\right)\right) \\ .4 = \sin\left(\arccos\left(\frac{\sqrt{3}}{2}\right)\right) & .5 = \arctan\left(\tan\left(\frac{\pi}{6}\right)\right) & .6 = \arccos\left(\sin\left(-\frac{\pi}{4}\right)\right) \\ .7 = \arcsin\left(\sin\left(-\frac{17\pi}{6}\right)\right) & .8 = \arccos\left(\cos\left(-\frac{\pi}{4}\right)\right) & .9 = \arctan\left(\tan\left(-\frac{17\pi}{6}\right)\right) \\ .10 = \cot(\arctan(\sqrt{3})) & .11 = \cot\left(\arcsin\left(\cos\left(-\frac{5\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcCos}\left(\sin\left(\mathrm{ArcCos}\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \cos\left(\arctan\left(\frac{-4}{3}\right)\right) & .2 = \sin\left(\arctan\left(\frac{2}{7}\right)\right) & .3 = \csc\left(\arccos\left(\frac{4}{5}\right)\right) \\ .4 = \tan\left(\arcsin\left(-\frac{\sqrt{3}}{8}\right)\right) & .5 = \sin\left(\arccos\left(\frac{\sqrt{7}}{10}\right)\right) & .6 = \sec\left(\arctan\left(\frac{\sqrt{5}}{7}\right)\right) \\ .7 = \tan\left(\arccos\left(\frac{-5}{7}\right)\right) & .8 = \cos\left(\arcsin\left(\frac{2}{3}\right)\right) & .9 = \cot\left(\arcsin\left(\frac{-4}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{5}{8}\right)\right) & .2 = \cos\left(\arccos\left(\frac{4}{9}\right) + \arcsin\left(\frac{-5}{7}\right)\right) \\ .3 = \sin\left(2\arcsin\left(\frac{5}{6}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{1}{2}\right)\right) \\ .5 = \arctan(\cos(3\pi) + \sin(5\pi)) & .6 = \sec\left(\arccos\left(\sin\left(\frac{11\pi}{6}\right)\right) + \arcsin\left(\cos\left(\frac{5\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \sin(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \cos(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.12677

$$No1 = \begin{bmatrix} .1 = \text{arcCos}(0) & .2 = \text{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .3 = \text{arcCos}\left(\frac{-1}{2}\right) \\ .4 = \text{arcTan}(1) & .5 = \text{arcSin}(1) & .6 = \text{arcCos}(-\sqrt{3}) \\ .7 = \text{arcSin}\left(\frac{1}{2}\right) & .8 = \text{arcSin}\left(-\frac{\sqrt{3}}{2}\right) & .9 = \text{arcTan}(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcSin}\left(\frac{-1}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) & .3 = \text{Sin}\left(\text{arcCos}\left(\frac{-1}{2}\right)\right) \\ .4 = \text{Tan}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) & .5 = \text{arcSin}\left(\text{Sin}\left(\frac{\pi}{6}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{5\pi}{6}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{11\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(\frac{11\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{11\pi}{6}\right)\right) \\ .10 = \text{Csc}(\text{arcTan}(1)) & .11 = \text{Tan}\left(\text{arcCos}\left(\text{Sin}\left(\frac{11\pi}{6}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(-\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Tan}\left(\text{arcSin}\left(\frac{-2}{5}\right)\right) & .2 = \text{Csc}(\text{arcTan}(-7)) & .3 = \text{Sin}(\text{arcTan}(-\sqrt{7})) \\ .4 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{6}\right)\right) & .5 = \text{Cot}\left(\text{arcSin}\left(\frac{\sqrt{3}}{4}\right)\right) & .6 = \text{Cos}\left(\text{arcTan}\left(\frac{7}{4}\right)\right) \\ .7 = \text{Tan}\left(\text{arcCos}\left(-\frac{\sqrt{7}}{9}\right)\right) & .8 = \text{Sec}\left(\text{arcCos}\left(\frac{-2}{3}\right)\right) & .9 = \text{Cos}\left(\text{arcSin}\left(\frac{3}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{2}\right) + \text{arcSin}\left(\frac{-2}{3}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{3}{7}\right) + \text{arcSin}\left(\frac{1}{3}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\,\text{arcCos}\left(\frac{1}{2}\right)\right) \\ .5 = \text{arcTan}(\text{Cos}(\pi) + \text{Sin}(\pi)) & .6 = \text{Cot}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{5\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{5\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.13490

$$No1 = \begin{bmatrix} .1 = \arccos\left(\frac{1}{2}\right) & .2 = \arcsin\left(\frac{\sqrt{2}}{2}\right) & .3 = \arccos(1) \\ .4 = \arctan(-\sqrt{3}) & .5 = \arcsin(-1) & .6 = \arccos\left(\frac{-1}{2}\right) \\ .7 = \arctan(1) & .8 = \arcsin(-\sqrt{3}) & .9 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Sin}\left(\arcsin\left(\frac{\sqrt{3}}{2}\right)\right) & .2 = \text{Cos}\left(\arcsin\left(\frac{\sqrt{2}}{2}\right)\right) & .3 = \text{Tan}\left(\arccos\left(\frac{1}{2}\right)\right) \\ .4 = \text{Sin}\left(\arccos\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \arccos\left(\text{Cos}\left(\frac{3\pi}{4}\right)\right) & .6 = \arccos\left(\text{Sin}\left(-\frac{\pi}{6}\right)\right) \\ .7 = \arcsin\left(\text{Sin}\left(-\frac{7\pi}{6}\right)\right) & .8 = \arccos\left(\text{Cos}\left(\frac{4\pi}{3}\right)\right) & .9 = \arctan\left(\text{Tan}\left(\frac{11\pi}{6}\right)\right) \\ .10 = \text{Sec}\left(\arccos\left(\frac{-1}{2}\right)\right) & .11 = \text{Cot}\left(\arccos\left(\text{Sin}\left(-\frac{17\pi}{6}\right)\right)\right) & .12 = \text{ArcSin}\left(\text{Cos}\left(\text{ArcSin}\left(-\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Csc}\left(\arcsin\left(-\frac{\sqrt{5}}{6}\right)\right) & .2 = \text{Tan}\left(\arcsin\left(\frac{3}{4}\right)\right) & .3 = \text{Sin}\left(\arccos\left(\frac{1}{3}\right)\right) \\ .4 = \text{Sin}\left(\arctan\left(\frac{-3}{2}\right)\right) & .5 = \text{Cos}\left(\arcsin\left(\frac{-1}{2}\right)\right) & .6 = \text{Tan}\left(\arccos\left(\frac{\sqrt{3}}{8}\right)\right) \\ .7 = \text{Cot}\left(\arccos\left(\frac{-1}{5}\right)\right) & .8 = \text{Cos}\left(\arctan\left(\frac{\sqrt{7}}{4}\right)\right) & .9 = \text{Sec}(\arctan(5)) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\arccos\left(\frac{3}{7}\right) + \arcsin\left(\frac{2}{5}\right)\right) & .2 = \text{Cos}\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{-3}{4}\right)\right) \\ .3 = \text{Sin}\left(2\arccos\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{1}{2}\right)\right) \\ .5 = \arctan(\text{Cos}(\pi) + \text{Sin}(4\pi)) & .6 = \text{Sec}\left(\arccos\left(\text{Sin}\left(\frac{13\pi}{6}\right)\right) + \arcsin\left(\text{Cos}\left(\frac{8\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.13500

$$No1 = \begin{bmatrix} .1 = \arctan(0) & .2 = \arccos\left(-\frac{\sqrt{2}}{2}\right) & .3 = \arccos(1) \\ .4 = \arccos\left(\frac{\sqrt{2}}{2}\right) & .5 = \arcsin\left(\frac{\sqrt{3}}{2}\right) & .6 = \arcsin(-1) \\ .7 = \arcsin\left(-\frac{\sqrt{3}}{2}\right) & .8 = \arccos(\sqrt{2}) & .9 = \arctan(-\sqrt{3}) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \sin\left(\arcsin\left(\frac{-1}{2}\right)\right) & .2 = \cos(\arctan(\sqrt{3})) & .3 = \tan\left(\arccos\left(-\frac{\sqrt{3}}{2}\right)\right) \\ .4 = \sin(\arctan(-1)) & .5 = \arccos\left(\cos\left(\frac{\pi}{6}\right)\right) & .6 = \arcsin\left(\cos\left(\frac{3\pi}{4}\right)\right) \\ .7 = \arcsin\left(\sin\left(\frac{17\pi}{6}\right)\right) & .8 = \arccos\left(\cos\left(-\frac{\pi}{3}\right)\right) & .9 = \arctan\left(\tan\left(\frac{11\pi}{6}\right)\right) \\ .10 = \cot\left(\arcsin\left(-\frac{\sqrt{3}}{2}\right)\right) & .11 = \cot\left(\arcsin\left(\cos\left(\frac{7\pi}{3}\right)\right)\right) & .12 = \text{ArcSin}\left(\cos\left(\text{ArcSin}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \tan\left(\arccos\left(\frac{-5}{7}\right)\right) & .2 = \sec\left(\arcsin\left(\frac{5}{7}\right)\right) & .3 = \cos\left(\arcsin\left(\frac{-5}{8}\right)\right) \\ .4 = \tan\left(\arcsin\left(-\frac{\sqrt{7}}{9}\right)\right) & .5 = \sin\left(\arccos\left(\frac{5}{7}\right)\right) & .6 = \sin\left(\arctan\left(\frac{7}{2}\right)\right) \\ .7 = \cot\left(\arccos\left(\frac{\sqrt{5}}{9}\right)\right) & .8 = \csc\left(\arctan\left(-\frac{\sqrt{5}}{4}\right)\right) & .9 = \cos\left(\arctan\left(\frac{-1}{5}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{3}{8}\right) + \arcsin\left(\frac{2}{7}\right)\right) & .2 = \cos\left(\arccos\left(\frac{3}{7}\right) + \arcsin\left(\frac{-3}{4}\right)\right) \\ .3 = \sin\left(2\arccos\left(\frac{1}{3}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{1}{2}\right)\right) \\ .5 = \arctan\left(\cos(5\pi) + \sin\left(\frac{5\pi}{2}\right)\right) & .6 = \cot\left(\arccos\left(\sin\left(-\frac{7\pi}{6}\right)\right) + \arcsin\left(\cos\left(-\frac{\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \sin(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \cos(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.13637

$$No1 = \begin{bmatrix} .1 = \arctan(0) & .2 = \arccos\left(-\frac{\sqrt{2}}{2}\right) & .3 = \arcsin(-5) \\ .4 = \arctan(\sqrt{3}) & .5 = \arcsin(-1) & .6 = \arccos\left(\frac{1}{2}\right) \\ .7 = \arcsin\left(\frac{\sqrt{3}}{2}\right) & .8 = \arcsin\left(\frac{-1}{2}\right) & .9 = \arccos(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcsin\left(\frac{1}{2}\right)\right) & .2 = \mathrm{Cos}\left(\arcsin\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \mathrm{Tan}\left(\arccos\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \mathrm{Sin}(\arctan(\sqrt{3})) & .5 = \arccos\left(\mathrm{Cos}\left(\frac{5\pi}{6}\right)\right) & .6 = \arccos\left(\mathrm{Sin}\left(\frac{\pi}{6}\right)\right) \\ .7 = \arcsin\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right) & .8 = \arccos\left(\mathrm{Cos}\left(-\frac{\pi}{3}\right)\right) & .9 = \arctan\left(\mathrm{Tan}\left(-\frac{17\pi}{6}\right)\right) \\ .10 = \mathrm{Csc}(\arctan(-1)) & .11 = \mathrm{Csc}\left(\arcsin\left(\mathrm{Cos}\left(-\frac{2\pi}{3}\right)\right)\right) & .12 = \mathrm{ArcCos}\left(\mathrm{Sin}\left(\mathrm{ArcCos}\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{4}{5}\right)\right) & .2 = \mathrm{Sec}\left(\arcsin\left(\frac{\sqrt{5}}{8}\right)\right) & .3 = \mathrm{Sin}\left(\arctan\left(\frac{-2}{7}\right)\right) \\ .4 = \mathrm{Csc}\left(\arccos\left(-\frac{\sqrt{7}}{11}\right)\right) & .5 = \mathrm{Cos}\left(\arctan\left(-\frac{\sqrt{3}}{4}\right)\right) & .6 = \mathrm{Cot}\left(\arctan\left(\frac{7}{3}\right)\right) \\ .7 = \mathrm{Cos}\left(\arcsin\left(\frac{5}{6}\right)\right) & .8 = \mathrm{Tan}\left(\arccos\left(\frac{-3}{4}\right)\right) & .9 = \mathrm{Tan}\left(\arcsin\left(\frac{-2}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{-1}{5}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{4}{5}\right) + \arcsin\left(\frac{2}{3}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arccos\left(\frac{5}{6}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{2}{3}\right)\right) \\ .5 = \arctan(\mathrm{Cos}(5\pi) + \mathrm{Sin}(-3\pi)) & .6 = \mathrm{Cot}\left(\arccos\left(\mathrm{Sin}\left(\frac{17\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(\frac{8\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645101

$$No1 = \begin{bmatrix} .1 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) & .2 = \arcsin\left(\frac{1}{2}\right) & .3 = \arccos(-1) \\ .4 = \arccos\left(\frac{\sqrt{3}}{2}\right) & .5 = \arctan\left(-\frac{\sqrt{3}}{3}\right) & .6 = \arctan(1) \\ .7 = \arcsin(0) & .8 = \arccos\left(-\frac{\sqrt{3}}{2}\right) & .9 = \arcsin(5) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\arccos\left(\frac{-1}{2}\right)\right) & .2 = \tan\left(\arcsin\left(-\frac{\sqrt{3}}{2}\right)\right) & .3 = \cos\left(\arcsin\left(\frac{\sqrt{3}}{2}\right)\right) \\ .4 = \sin\left(\arccos\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \arccos\left(\cos\left(\frac{\pi}{4}\right)\right) & .6 = \arccos\left(\sin\left(-\frac{\pi}{3}\right)\right) \\ .7 = \arcsin\left(\sin\left(\frac{17\pi}{6}\right)\right) & .8 = \arccos\left(\cos\left(\frac{11\pi}{3}\right)\right) & .9 = \arctan\left(\tan\left(-\frac{7\pi}{6}\right)\right) \\ .10 = \csc\left(\arcsin\left(\frac{-1}{2}\right)\right) & .11 = \csc\left(\arccos\left(\sin\left(-\frac{11\pi}{6}\right)\right)\right) & .12 = \arccos\left(\sin\left(\arccos\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \sec\left(\arctan\left(\frac{-4}{7}\right)\right) & .2 = \tan\left(\arcsin\left(\frac{-1}{2}\right)\right) & .3 = \sin\left(\arccos\left(\frac{1}{6}\right)\right) \\ .4 = \sin\left(\arctan\left(\frac{1}{7}\right)\right) & .5 = \tan\left(\arccos\left(\frac{-4}{7}\right)\right) & .6 = \cos\left(\arcsin\left(-\frac{\sqrt{2}}{5}\right)\right) \\ .7 = \cot\left(\arccos\left(\frac{\sqrt{3}}{8}\right)\right) & .8 = \csc\left(\arcsin\left(\frac{1}{6}\right)\right) & .9 = \cos\left(\arctan\left(\frac{\sqrt{7}}{3}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{5}{6}\right) + \arcsin\left(\frac{-3}{7}\right)\right) & .2 = \cos\left(\arccos\left(\frac{1}{6}\right) + \arcsin\left(\frac{1}{2}\right)\right) \\ .3 = \sin\left(2\arcsin\left(\frac{5}{9}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{1}{2}\right)\right) \\ .5 = \arctan\left(\cos\left(\frac{5\pi}{2}\right) + \sin\left(\frac{9\pi}{2}\right)\right) & .6 = \csc\left(\arccos\left(\sin\left(-\frac{5\pi}{6}\right)\right) + \arcsin\left(\cos\left(-\frac{\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \sin(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \cos(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645102

$$No1 = \begin{bmatrix} .1 = \arccos\left(\frac{-1}{2}\right) & .2 = \arccos\left(\frac{\sqrt{3}}{2}\right) & .3 = \arcsin\left(-\frac{\sqrt{2}}{2}\right) \\ .4 = \arccos(-1) & .5 = \arccos(7) & .6 = \arcsin(0) \\ .7 = \arctan(0) & .8 = \arctan(1) & .9 = \arcsin\left(\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \tan\left(\arctan\left(\frac{\sqrt{3}}{3}\right)\right) & .2 = \cos(\arctan(1)) & .3 = \tan\left(\arcsin\left(\frac{1}{2}\right)\right) \\ .4 = \sin(\arctan(-\sqrt{3})) & .5 = \arctan\left(\tan\left(\frac{\pi}{6}\right)\right) & .6 = \arccos\left(\sin\left(\frac{\pi}{6}\right)\right) \\ .7 = \arcsin\left(\sin\left(\frac{7\pi}{6}\right)\right) & .8 = \arccos\left(\cos\left(\frac{10\pi}{3}\right)\right) & .9 = \arctan\left(\tan\left(-\frac{7\pi}{6}\right)\right) \\ .10 = \csc\left(\arcsin\left(\frac{\sqrt{2}}{2}\right)\right) & .11 = \sec\left(\arccos\left(\sin\left(\frac{5\pi}{6}\right)\right)\right) & .12 = \text{ArcSin}\left(\cos\left(\text{ArcSin}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \sec\left(\arccos\left(\frac{3}{5}\right)\right) & .2 = \tan\left(\arcsin\left(\frac{-1}{4}\right)\right) & .3 = \cot\left(\arcsin\left(\frac{1}{3}\right)\right) \\ .4 = \cos\left(\arcsin\left(\frac{\sqrt{3}}{8}\right)\right) & .5 = \tan\left(\arccos\left(\frac{-5}{7}\right)\right) & .6 = \cos(\arctan(3)) \\ .7 = \sin\left(\arccos\left(-\frac{\sqrt{3}}{8}\right)\right) & .8 = \csc(\arctan(-5)) & .9 = \sin\left(\arctan\left(\frac{\sqrt{7}}{2}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{1}{4}\right)\right) & .2 = \cos\left(\arccos\left(\frac{2}{3}\right) + \arcsin\left(\frac{-4}{5}\right)\right) \\ .3 = \sin\left(2\arccos\left(\frac{5}{9}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{1}{2}\right)\right) \\ .5 = \arctan(\cos(3\pi) + \sin(-\pi)) & .6 = \cot\left(\arccos\left(\sin\left(\frac{17\pi}{6}\right)\right) + \arcsin\left(\cos\left(-\frac{\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \sin(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \cos(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645103

$$No1 = \begin{bmatrix} .1 = \operatorname{arcTan}\left(-\frac{\sqrt{3}}{3}\right) & .2 = \operatorname{arcCos}(0) & .3 = \operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right) \\ .4 = \operatorname{arcCos}(5) & .5 = \operatorname{arcSin}(1) & .6 = \operatorname{arcSin}\left(\frac{1}{2}\right) \\ .7 = \operatorname{arcTan}(1) & .8 = \operatorname{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .9 = \operatorname{arcSin}\left(\frac{-1}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .3 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{-1}{2}\right)\right) \\ .4 = \operatorname{Tan}\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .5 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{\pi}{4}\right)\right) & .6 = \operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{\pi}{6}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{13\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(-\frac{\pi}{4}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{7\pi}{6}\right)\right) \\ .10 = \operatorname{Cot}\left(\operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) & .11 = \operatorname{Cot}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{7\pi}{6}\right)\right)\right) & .12 = \operatorname{ArcCos}\left(\operatorname{Sin}\left(\operatorname{ArcCos}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{5}{7}\right)\right) & .2 = \operatorname{Sin}(\operatorname{arcTan}(-2)) & .3 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{2}{5}\right)\right) \\ .4 = \operatorname{Sec}\left(\operatorname{arcSin}\left(\frac{\sqrt{5}}{7}\right)\right) & .5 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{-5}{9}\right)\right) & .6 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{-3}{8}\right)\right) \\ .7 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{\sqrt{2}}{3}\right)\right) & .8 = \operatorname{Cot}\left(\operatorname{arcTan}\left(\frac{5}{3}\right)\right) & .9 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{3}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{2}{5}\right) + \operatorname{arcSin}\left(\frac{3}{7}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{3}{8}\right) + \operatorname{arcSin}\left(\frac{-1}{3}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcCos}\left(\frac{3}{4}\right)\right) & .4 = \cos\left(2\operatorname{arcSin}\left(\frac{1}{4}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}\left(\frac{\pi}{2}\right) + \operatorname{Sin}\left(\frac{3\pi}{2}\right)\right) & .6 = \operatorname{Cot}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{17\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{10\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645104

$$No1 = \begin{bmatrix} .1 = \operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .2 = \operatorname{arcTan}(0) & .3 = \operatorname{arcTan}(1) \\ .4 = \operatorname{arcCos}(-1) & .5 = \operatorname{arcSin}(1) & .6 = \operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right) \\ .7 = \operatorname{arcSin}\left(-\frac{\sqrt{3}}{2}\right) & .8 = \operatorname{arcSin}(\sqrt{3}) & .9 = \operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcSin}\left(\frac{1}{2}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{-1}{2}\right)\right) & .5 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{\pi}{6}\right)\right) & .6 = \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{5\pi}{6}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{7\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(-\frac{\pi}{3}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{11\pi}{6}\right)\right) \\ .10 = \operatorname{Sec}\left(\operatorname{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) & .11 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{17\pi}{6}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{1}{2}\right)\right) & .2 = \operatorname{Csc}\left(\operatorname{arcTan}\left(\frac{-5}{6}\right)\right) & .3 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{5}{9}\right)\right) \\ .4 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{5}{6}\right)\right) & .5 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\frac{-5}{7}\right)\right) & .6 = \operatorname{Sin}\left(\operatorname{arcTan}\left(-\frac{\sqrt{5}}{7}\right)\right) \\ .7 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{\sqrt{5}}{6}\right)\right) & .8 = \operatorname{Tan}\left(\operatorname{arcSin}\left(-\frac{\sqrt{2}}{5}\right)\right) & .9 = \operatorname{Cot}\left(\operatorname{arcSin}\left(\frac{-3}{5}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{2}{3}\right) + \operatorname{arcSin}\left(\frac{1}{4}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{1}{3}\right) + \operatorname{arcSin}\left(\frac{-1}{2}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcSin}\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\operatorname{arcCos}\left(\frac{1}{5}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}\left(\frac{9\pi}{2}\right) + \operatorname{Sin}\left(-\frac{11\pi}{2}\right)\right) & .6 = \operatorname{Cot}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{5\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{5\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645105

$$No1 = \begin{bmatrix} .1 = \text{arcTan}(0) & .2 = \text{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .3 = \text{arcSin}\left(\frac{1}{2}\right) \\ .4 = \text{arcCos}\left(-\frac{\sqrt{3}}{2}\right) & .5 = \text{arcSin}(3) & .6 = \text{arcCos}(1) \\ .7 = \text{arcTan}(\sqrt{3}) & .8 = \text{arcSin}\left(\frac{-1}{2}\right) & .9 = \text{arcSin}(-1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\text{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) & .2 = \text{Cos}(\text{arcTan}(\sqrt{3})) & .3 = \text{Tan}\left(\text{arcCos}\left(\frac{-1}{2}\right)\right) \\ .4 = \text{Sin}(\text{arcTan}(-\sqrt{3})) & .5 = \text{arcCos}\left(\text{Cos}\left(\frac{\pi}{6}\right)\right) & .6 = \text{arcCos}\left(\text{Sin}\left(\frac{\pi}{3}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{11\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(-\frac{3\pi}{4}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{13\pi}{6}\right)\right) \\ .10 = \text{Csc}(\text{arcTan}(-1)) & .11 = \text{Tan}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{17\pi}{6}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Cot}\left(\text{arcSin}\left(\frac{1}{4}\right)\right) & .2 = \text{Sin}\left(\text{arcTan}\left(\frac{1}{4}\right)\right) & .3 = \text{Sec}\left(\text{arcTan}\left(\frac{-3}{2}\right)\right) \\ .4 = \text{Tan}\left(\text{arcSin}\left(-\frac{\sqrt{5}}{7}\right)\right) & .5 = \text{Sin}\left(\text{arcCos}\left(\frac{\sqrt{5}}{8}\right)\right) & .6 = \text{Cos}\left(\text{arcTan}\left(-\frac{\sqrt{6}}{7}\right)\right) \\ .7 = \text{Tan}\left(\text{arcCos}\left(\frac{1}{5}\right)\right) & .8 = \text{Csc}\left(\text{arcCos}\left(\frac{-4}{9}\right)\right) & .9 = \text{Cos}\left(\text{arcSin}\left(\frac{-2}{3}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{2}\right) + \text{arcSin}\left(\frac{1}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{4}{5}\right) + \text{arcSin}\left(\frac{-1}{4}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{2}{3}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{1}{2}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}\left(\frac{7\pi}{2}\right) + \text{Sin}\left(-\frac{9\pi}{2}\right)\right) & .6 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(\frac{11\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{7\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645106

$$No1 = \begin{bmatrix} .1 = \text{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .2 = \text{arcSin}(1) & .3 = \text{arcTan}\left(\frac{\sqrt{3}}{3}\right) \\ .4 = \text{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .5 = \text{arcSin}(5) & .6 = \text{arcTan}(-1) \\ .7 = \text{arcCos}(0) & .8 = \text{arcCos}\left(\frac{\sqrt{2}}{2}\right) & .9 = \text{arcSin}\left(\frac{-1}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\text{arcCos}\left(\frac{-1}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) & .3 = \text{Sin}\left(\text{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \text{Tan}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) & .5 = \text{arcCos}\left(\text{Cos}\left(\frac{3\pi}{4}\right)\right) & .6 = \text{arcCos}\left(\text{Sin}\left(-\frac{\pi}{3}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(-\frac{2\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(\frac{13\pi}{6}\right)\right) \\ .10 = \text{Cot}\left(\text{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) & .11 = \text{Cot}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{7\pi}{6}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(-\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Tan}\left(\text{arcSin}\left(\frac{5}{8}\right)\right) & .2 = \text{Sec}\left(\text{arcSin}\left(\frac{-5}{7}\right)\right) & .3 = \text{Cos}\left(\text{arcTan}\left(\frac{-1}{2}\right)\right) \\ .4 = \text{Tan}\left(\text{arcCos}\left(\frac{1}{2}\right)\right) & .5 = \text{Sin}\left(\text{arcCos}\left(\frac{\sqrt{5}}{7}\right)\right) & .6 = \text{Cos}\left(\text{arcSin}\left(\frac{\sqrt{7}}{12}\right)\right) \\ .7 = \text{Sin}\left(\text{arcTan}\left(\frac{7}{2}\right)\right) & .8 = \text{Csc}\left(\text{arcCos}\left(\frac{-3}{7}\right)\right) & .9 = \text{Cot}\left(\text{arcTan}\left(-\frac{\sqrt{2}}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{5}\right) + \text{arcSin}\left(\frac{-1}{4}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{1}{2}\right) + \text{arcSin}\left(\frac{3}{7}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{2}{3}\right)\right) & .4 = \cos\left(2\,\text{arcCos}\left(\frac{1}{4}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}\left(\frac{3\pi}{2}\right) + \text{Sin}\left(\frac{7\pi}{2}\right)\right) & .6 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{5\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(-\frac{\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645107

$$No1 = \begin{bmatrix} .1 = \mathrm{arcCos}(1) & .2 = \mathrm{arcTan}(0) & .3 = \mathrm{arcCos}(\sqrt{2}) \\ .4 = \mathrm{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .5 = \mathrm{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .6 = \mathrm{arcSin}\left(\frac{\sqrt{2}}{2}\right) \\ .7 = \mathrm{arcSin}\left(\frac{-1}{2}\right) & .8 = \mathrm{arcTan}(-1) & .9 = \mathrm{arcSin}(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Tan}\left(\mathrm{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) & .2 = \mathrm{Sin}\left(\mathrm{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \mathrm{Tan}\left(\mathrm{arcCos}\left(\frac{-1}{2}\right)\right) \\ .4 = \mathrm{Cos}(\mathrm{arcTan}(-\sqrt{3})) & .5 = \mathrm{arcCos}\left(\mathrm{Cos}\left(\frac{5\pi}{6}\right)\right) & .6 = \mathrm{arcCos}\left(\mathrm{Sin}\left(\frac{\pi}{3}\right)\right) \\ .7 = \mathrm{arcSin}\left(\mathrm{Sin}\left(-\frac{17\pi}{6}\right)\right) & .8 = \mathrm{arcCos}\left(\mathrm{Cos}\left(\frac{4\pi}{3}\right)\right) & .9 = \mathrm{arcTan}\left(\mathrm{Tan}\left(\frac{17\pi}{6}\right)\right) \\ .10 = \mathrm{Csc}\left(\mathrm{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .11 = \mathrm{Cot}\left(\mathrm{arcCos}\left(\mathrm{Sin}\left(-\frac{7\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcCos}\left(\mathrm{Sin}\left(\mathrm{ArcCos}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Tan}\left(\mathrm{arcSin}\left(-\frac{\sqrt{2}}{3}\right)\right) & .2 = \mathrm{Sin}\left(\mathrm{arcTan}\left(-\frac{\sqrt{7}}{2}\right)\right) & .3 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{4}{9}\right)\right) \\ .4 = \mathrm{Cot}\left(\mathrm{arcSin}\left(\frac{-3}{5}\right)\right) & .5 = \mathrm{Tan}\left(\mathrm{arcCos}\left(-\frac{\sqrt{5}}{7}\right)\right) & .6 = \mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{2}{5}\right)\right) \\ .7 = \mathrm{Sec}\left(\mathrm{arcCos}\left(\frac{-5}{6}\right)\right) & .8 = \mathrm{Csc}\left(\mathrm{arcTan}\left(\frac{-7}{5}\right)\right) & .9 = \mathrm{Cos}(\mathrm{arcTan}(6)) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{3}{7}\right) + \mathrm{arcSin}\left(\frac{3}{4}\right)\right) & .2 = \mathrm{Cos}\left(\mathrm{arcCos}\left(\frac{4}{7}\right) + \mathrm{arcSin}\left(\frac{-5}{7}\right)\right) \\ .3 = \mathrm{Sin}\left(2\,\mathrm{arcSin}\left(\frac{3}{5}\right)\right) & .4 = \cos\left(2\,\mathrm{arcCos}\left(\frac{1}{2}\right)\right) \\ .5 = \mathrm{arcTan}\left(\mathrm{Cos}(2\pi) + \mathrm{Sin}\left(-\frac{13\pi}{2}\right)\right) & .6 = \mathrm{Csc}\left(\mathrm{arcCos}\left(\mathrm{Sin}\left(\frac{17\pi}{6}\right)\right) + \mathrm{arcSin}\left(\mathrm{Cos}\left(-\frac{2\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\,\mathrm{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\,\mathrm{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645108

$$No1 = \begin{bmatrix} .1 = \operatorname{arcTan}(-1) & .2 = \operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .3 = \operatorname{arcSin}\left(\frac{-1}{2}\right) \\ .4 = \operatorname{arcSin}(1) & .5 = \operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .6 = \operatorname{arcCos}(0) \\ .7 = \operatorname{arcTan}\left(\frac{\sqrt{3}}{3}\right) & .8 = \operatorname{arcSin}(-5) & .9 = \operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\operatorname{arcCos}\left(\frac{\sqrt{3}}{2}\right)\right) & .2 = \operatorname{Cos}(\operatorname{arcTan}(-1)) & .3 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \operatorname{Sin}\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .5 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{\pi}{6}\right)\right) & .6 = \operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{\pi}{4}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{5\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(-\frac{3\pi}{4}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{17\pi}{6}\right)\right) \\ .10 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{-1}{2}\right)\right) & .11 = \operatorname{Csc}\left(\operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{10\pi}{3}\right)\right)\right) & .12 = \operatorname{ArcCos}\left(\operatorname{Sin}\left(\operatorname{ArcCos}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{-2}{7}\right)\right) & .2 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{\sqrt{3}}{4}\right)\right) & .3 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{4}{5}\right)\right) \\ .4 = \operatorname{Sin}\left(\operatorname{arcTan}\left(-\frac{\sqrt{5}}{2}\right)\right) & .5 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{-7}{5}\right)\right) & .6 = \operatorname{Sec}\left(\operatorname{arcSin}\left(-\frac{\sqrt{5}}{9}\right)\right) \\ .7 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{4}{7}\right)\right) & .8 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{-5}{7}\right)\right) & .9 = \operatorname{Cot}\left(\operatorname{arcTan}\left(\frac{1}{6}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{1}{2}\right) + \operatorname{arcSin}\left(\frac{-4}{5}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{4}{5}\right) + \operatorname{arcSin}\left(\frac{4}{9}\right)\right) \\ .3 = \operatorname{Sin}\left(2 \operatorname{arcSin}\left(\frac{1}{4}\right)\right) & .4 = \cos\left(2 \operatorname{arcCos}\left(\frac{2}{7}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}\left(\frac{3\pi}{2}\right) + \operatorname{Sin}\left(-\frac{11\pi}{2}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{17\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{5\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2 \operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2 \operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645109

$$No1 = \begin{bmatrix} .1 = \arccos\left(\frac{\sqrt{3}}{2}\right) & .2 = \arccos(3) & .3 = \arccos\left(\frac{-1}{2}\right) \\ .4 = \arcsin\left(\frac{1}{2}\right) & .5 = \arctan(-\sqrt{3}) & .6 = \arccos(-1) \\ .7 = \arcsin\left(-\frac{\sqrt{3}}{2}\right) & .8 = \arctan(0) & .9 = \arcsin(1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\arccos\left(\frac{\sqrt{3}}{2}\right)\right) & .2 = \tan\left(\arcsin\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \sin\left(\arctan\left(-\frac{\sqrt{3}}{3}\right)\right) \\ .4 = \cos\left(\arcsin\left(\frac{\sqrt{3}}{2}\right)\right) & .5 = \arccos\left(\cos\left(\frac{\pi}{6}\right)\right) & .6 = \arcsin\left(\cos\left(\frac{\pi}{4}\right)\right) \\ .7 = \arcsin\left(\sin\left(-\frac{17\pi}{6}\right)\right) & .8 = \arccos\left(\cos\left(-\frac{\pi}{6}\right)\right) & .9 = \arctan\left(\tan\left(-\frac{5\pi}{6}\right)\right) \\ .10 = \csc(\arctan(1)) & .11 = \sec\left(\arccos\left(\sin\left(\frac{17\pi}{6}\right)\right)\right) & .12 = \arccos\left(\sin\left(\arccos\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \cos\left(\arcsin\left(\frac{-4}{7}\right)\right) & .2 = \cos\left(\arctan\left(-\frac{\sqrt{6}}{5}\right)\right) & .3 = \tan\left(\arccos\left(-\frac{\sqrt{3}}{4}\right)\right) \\ .4 = \cot\left(\arccos\left(\frac{-2}{5}\right)\right) & .5 = \sin\left(\arctan\left(\frac{4}{5}\right)\right) & .6 = \sin\left(\arccos\left(\frac{4}{5}\right)\right) \\ .7 = \tan\left(\arcsin\left(\frac{\sqrt{2}}{5}\right)\right) & .8 = \sec\left(\arcsin\left(\frac{2}{3}\right)\right) & .9 = \csc\left(\arctan\left(\frac{-7}{4}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{3}{5}\right)\right) & .2 = \cos\left(\arccos\left(\frac{3}{7}\right) + \arcsin\left(\frac{-1}{2}\right)\right) \\ .3 = \sin\left(2\arccos\left(\frac{5}{9}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{3}{8}\right)\right) \\ .5 = \arctan\left(\cos(8\pi) + \sin\left(-\frac{9\pi}{2}\right)\right) & .6 = \csc\left(\arccos\left(\sin\left(\frac{13\pi}{6}\right)\right) + \arcsin\left(\cos\left(\frac{8\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \sin(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \cos(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645110

$$No1 = \begin{bmatrix} .1 = \text{arcCos}\left(\frac{\sqrt{2}}{2}\right) & .2 = \text{arcSin}(5) & .3 = \text{arcTan}\left(-\frac{\sqrt{3}}{3}\right) \\ .4 = \text{arcSin}(1) & .5 = \text{arcSin}\left(-\frac{\sqrt{3}}{2}\right) & .6 = \text{arcSin}\left(\frac{\sqrt{3}}{2}\right) \\ .7 = \text{arcCos}\left(\frac{-1}{2}\right) & .8 = \text{arcTan}(1) & .9 = \text{arcCos}(-1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\text{arcCos}\left(\frac{-1}{2}\right)\right) & .2 = \text{Cos}(\text{arcTan}(-\sqrt{3})) & .3 = \text{Sin}\left(\text{arcCos}\left(\frac{\sqrt{3}}{2}\right)\right) \\ .4 = \text{Tan}\left(\text{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \text{arcCos}\left(\text{Cos}\left(\frac{\pi}{3}\right)\right) & .6 = \text{arcCos}\left(\text{Sin}\left(\frac{\pi}{6}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{7\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(\frac{4\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{7\pi}{6}\right)\right) \\ .10 = \text{Csc}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) & .11 = \text{Tan}\left(\text{arcSin}\left(\text{Cos}\left(\frac{13\pi}{3}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Cos}\left(\text{arcTan}\left(\frac{-2}{7}\right)\right) & .2 = \text{Sin}\left(\text{arcTan}\left(\frac{\sqrt{2}}{3}\right)\right) & .3 = \text{Sin}\left(\text{arcCos}\left(\frac{-2}{3}\right)\right) \\ .4 = \text{Sec}\left(\text{arcCos}\left(\frac{5}{9}\right)\right) & .5 = \text{Csc}\left(\text{arcSin}\left(\frac{-5}{7}\right)\right) & .6 = \text{Cos}\left(\text{arcSin}\left(\frac{1}{4}\right)\right) \\ .7 = \text{Cot}\left(\text{arcTan}\left(\frac{1}{3}\right)\right) & .8 = \text{Tan}\left(\text{arcSin}\left(-\frac{\sqrt{6}}{7}\right)\right) & .9 = \text{Tan}\left(\text{arcCos}\left(\frac{\sqrt{2}}{5}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{2}\right) + \text{arcSin}\left(\frac{-4}{7}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{1}{2}\right) + \text{arcSin}\left(\frac{1}{2}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{2}{7}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{1}{2}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}(7\pi) + \text{Sin}\left(\frac{17\pi}{2}\right)\right) & .6 = \text{Csc}\left(\text{arcCos}\left(\text{Sin}\left(\frac{5\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(-\frac{\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645111

$$No1 = \begin{bmatrix} .1 = \operatorname{arcCos}(-1) & .2 = \operatorname{arcCos}\left(\frac{1}{2}\right) & .3 = \operatorname{arcSin}(0) \\ .4 = \operatorname{arcTan}(\sqrt{3}) & .5 = \operatorname{arcCos}\left(\frac{-1}{2}\right) & .6 = \operatorname{arcCos}(-3) \\ .7 = \operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right) & .8 = \operatorname{arcTan}(0) & .9 = \operatorname{arcSin}\left(-\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcSin}\left(\frac{-1}{2}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) & .3 = \operatorname{Sin}(\operatorname{arcTan}(1)) \\ .4 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) & .5 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{\pi}{6}\right)\right) & .6 = \operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{\pi}{3}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(-\frac{\pi}{4}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{11\pi}{6}\right)\right) \\ .10 = \operatorname{Sec}\left(\operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \operatorname{Cot}\left(\operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{5\pi}{3}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(-\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Sec}\left(\operatorname{arcTan}\left(\frac{3}{5}\right)\right) & .2 = \operatorname{Cot}\left(\operatorname{arcSin}\left(\frac{\sqrt{5}}{8}\right)\right) & .3 = \operatorname{Sin}\left(\operatorname{arcTan}\left(\frac{-1}{5}\right)\right) \\ .4 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{5}{9}\right)\right) & .5 = \operatorname{Cos}\left(\operatorname{arcTan}\left(\frac{\sqrt{7}}{2}\right)\right) & .6 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{-2}{3}\right)\right) \\ .7 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{-2}{5}\right)\right) & .8 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{5}{7}\right)\right) & .9 = \operatorname{Tan}\left(\operatorname{arcCos}\left(-\frac{\sqrt{5}}{8}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{5}{8}\right) + \operatorname{arcSin}\left(\frac{5}{7}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{1}{2}\right) + \operatorname{arcSin}\left(\frac{-1}{2}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcSin}\left(\frac{4}{9}\right)\right) & .4 = \cos\left(2\operatorname{arcCos}\left(\frac{5}{6}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}(8\pi) + \operatorname{Sin}\left(-\frac{9\pi}{2}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{11\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{4\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645112

$$No1 = \begin{bmatrix} .1 = \mathrm{arcCos}(-3) & .2 = \mathrm{arcSin}\left(\frac{-1}{2}\right) & .3 = \mathrm{arcSin}(-1) \\ .4 = \mathrm{arcCos}\left(\frac{\sqrt{2}}{2}\right) & .5 = \mathrm{arcTan}(\sqrt{3}) & .6 = \mathrm{arcCos}\left(-\frac{\sqrt{3}}{2}\right) \\ .7 = \mathrm{arcTan}(0) & .8 = \mathrm{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .9 = \mathrm{arcCos}(1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\mathrm{arcCos}\left(\frac{\sqrt{3}}{2}\right)\right) & .2 = \mathrm{Sin}\left(\mathrm{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) & .3 = \mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{1}{2}\right)\right) \\ .4 = \mathrm{Tan}\left(\mathrm{arcSin}\left(-\frac{\sqrt{3}}{2}\right)\right) & .5 = \mathrm{arcSin}\left(\mathrm{Sin}\left(-\frac{\pi}{6}\right)\right) & .6 = \mathrm{arcCos}\left(\mathrm{Sin}\left(\frac{\pi}{3}\right)\right) \\ .7 = \mathrm{arcSin}\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right) & .8 = \mathrm{arcCos}\left(\mathrm{Cos}\left(\frac{4\pi}{3}\right)\right) & .9 = \mathrm{arcTan}\left(\mathrm{Tan}\left(-\frac{5\pi}{6}\right)\right) \\ .10 = \mathrm{Cot}\left(\mathrm{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .11 = \mathrm{Sec}\left(\mathrm{arcCos}\left(\mathrm{Sin}\left(\frac{11\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Cot}\left(\mathrm{arcTan}\left(\frac{-7}{3}\right)\right) & .2 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{\sqrt{2}}{5}\right)\right) & .3 = \mathrm{Tan}\left(\mathrm{arcCos}\left(\frac{-5}{9}\right)\right) \\ .4 = \mathrm{Tan}\left(\mathrm{arcSin}\left(\frac{1}{4}\right)\right) & .5 = \mathrm{Cos}\left(\mathrm{arcTan}\left(\frac{2}{5}\right)\right) & .6 = \mathrm{Sec}\left(\mathrm{arcSin}\left(\frac{-5}{8}\right)\right) \\ .7 = \mathrm{Csc}\left(\mathrm{arcCos}\left(\frac{1}{3}\right)\right) & .8 = \mathrm{Sin}\left(\mathrm{arcTan}\left(-\frac{\sqrt{7}}{4}\right)\right) & .9 = \mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{\sqrt{3}}{4}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{1}{2}\right) + \mathrm{arcSin}\left(\frac{-3}{4}\right)\right) & .2 = \mathrm{Cos}\left(\mathrm{arcCos}\left(\frac{1}{3}\right) + \mathrm{arcSin}\left(\frac{4}{7}\right)\right) \\ .3 = \mathrm{Sin}\left(2\,\mathrm{arcSin}\left(\frac{2}{3}\right)\right) & .4 = \cos\left(2\,\mathrm{arcSin}\left(\frac{2}{5}\right)\right) \\ .5 = \mathrm{arcTan}\left(\mathrm{Cos}\left(\frac{7\pi}{2}\right) + \mathrm{Sin}\left(-\frac{7\pi}{2}\right)\right) & .6 = \mathrm{Sec}\left(\mathrm{arcCos}\left(\mathrm{Sin}\left(-\frac{17\pi}{6}\right)\right) + \mathrm{arcSin}\left(\mathrm{Cos}\left(-\frac{\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\,\mathrm{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\,\mathrm{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645113

$$No1 = \begin{bmatrix} .1 = \operatorname{arcSin}\left(-\frac{\sqrt{3}}{2}\right) & .2 = \operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right) & .3 = \operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right) \\ .4 = \operatorname{arcSin}(0) & .5 = \operatorname{arcTan}(0) & .6 = \operatorname{arcSin}(\sqrt{3}) \\ .7 = \operatorname{arcTan}\left(-\frac{\sqrt{3}}{3}\right) & .8 = \operatorname{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .9 = \operatorname{arcCos}(-1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \operatorname{Tan}\left(\operatorname{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) & .2 = \operatorname{Cos}(\operatorname{arcTan}(1)) & .3 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{1}{2}\right)\right) \\ .4 = \operatorname{Sin}(\operatorname{arcTan}(-1)) & .5 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{\pi}{6}\right)\right) & .6 = \operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{\pi}{4}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{7\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(-\frac{\pi}{6}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{5\pi}{6}\right)\right) \\ .10 = \operatorname{Csc}\left(\operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{11\pi}{6}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{-1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(-\frac{\sqrt{5}}{9}\right)\right) & .2 = \operatorname{Sin}\left(\operatorname{arcTan}\left(\frac{-5}{6}\right)\right) & .3 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{3}{8}\right)\right) \\ .4 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{-5}{7}\right)\right) & .5 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{4}{9}\right)\right) & .6 = \operatorname{Cos}\left(\operatorname{arcTan}\left(-\frac{\sqrt{2}}{7}\right)\right) \\ .7 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{-5}{7}\right)\right) & .8 = \operatorname{Cot}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{7}\right)\right) & .9 = \operatorname{Sec}\left(\operatorname{arcTan}\left(\frac{1}{2}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{3}{4}\right) + \operatorname{arcSin}\left(\frac{1}{5}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{4}{9}\right) + \operatorname{arcSin}\left(\frac{-2}{7}\right)\right) \\ .3 = \operatorname{Sin}\left(2 \operatorname{arcCos}\left(\frac{5}{7}\right)\right) & .4 = \cos\left(2 \operatorname{arcCos}\left(\frac{5}{6}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}\left(\frac{5\pi}{2}\right) + \operatorname{Sin}\left(-\frac{9\pi}{2}\right)\right) & .6 = \operatorname{Cot}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{5\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(-\frac{5\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2 \operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2 \operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645114

$$No1 = \begin{bmatrix} .1 = \mathrm{arcCos}\left(-\frac{\sqrt{3}}{2}\right) & .2 = \mathrm{arcCos}\left(\frac{1}{2}\right) & .3 = \mathrm{arcSin}\left(\frac{-1}{2}\right) \\ .4 = \mathrm{arcSin}(-1) & .5 = \mathrm{arcCos}(0) & .6 = \mathrm{arcTan}(1) \\ .7 = \mathrm{arcCos}(-5) & .8 = \mathrm{arcSin}\left(\frac{\sqrt{2}}{2}\right) & .9 = \mathrm{arcTan}(-\sqrt{3}) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\mathrm{arcCos}\left(\frac{-1}{2}\right)\right) & .2 = \mathrm{Cos}(\mathrm{arcTan}(-\sqrt{3})) & .3 = \mathrm{Tan}\left(\mathrm{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \mathrm{Sin}\left(\mathrm{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .5 = \mathrm{arcCos}\left(\mathrm{Cos}\left(\frac{2\pi}{3}\right)\right) & .6 = \mathrm{arcCos}\left(\mathrm{Sin}\left(\frac{\pi}{6}\right)\right) \\ .7 = \mathrm{arcSin}\left(\mathrm{Sin}\left(-\frac{17\pi}{6}\right)\right) & .8 = \mathrm{arcCos}\left(\mathrm{Cos}\left(-\frac{5\pi}{6}\right)\right) & .9 = \mathrm{arcTan}\left(\mathrm{Tan}\left(\frac{17\pi}{6}\right)\right) \\ .10 = \mathrm{Csc}\left(\mathrm{arcCos}\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \mathrm{Cot}\left(\mathrm{arcSin}\left(\mathrm{Cos}\left(-\frac{2\pi}{3}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Sec}\left(\mathrm{arcTan}\left(-\frac{\sqrt{7}}{3}\right)\right) & .2 = \mathrm{Cos}\left(\mathrm{arcTan}\left(\frac{7}{5}\right)\right) & .3 = \mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{-5}{8}\right)\right) \\ .4 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{-1}{4}\right)\right) & .5 = \mathrm{Cot}\left(\mathrm{arcCos}\left(-\frac{\sqrt{5}}{9}\right)\right) & .6 = \mathrm{Tan}\left(\mathrm{arcCos}\left(\frac{4}{7}\right)\right) \\ .7 = \mathrm{Csc}\left(\mathrm{arcSin}\left(\frac{1}{3}\right)\right) & .8 = \mathrm{Tan}\left(\mathrm{arcSin}\left(\frac{\sqrt{2}}{5}\right)\right) & .9 = \mathrm{Sin}\left(\mathrm{arcTan}\left(\frac{-1}{6}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{2}{3}\right) + \mathrm{arcSin}\left(\frac{1}{4}\right)\right) & .2 = \mathrm{Cos}\left(\mathrm{arcCos}\left(\frac{1}{2}\right) + \mathrm{arcSin}\left(\frac{-1}{2}\right)\right) \\ .3 = \mathrm{Sin}\left(2\,\mathrm{arcCos}\left(\frac{4}{9}\right)\right) & .4 = \cos\left(2\,\mathrm{arcCos}\left(\frac{3}{4}\right)\right) \\ .5 = \mathrm{arcTan}\left(\mathrm{Cos}\left(\frac{9\pi}{2}\right) + \mathrm{Sin}\left(\frac{7\pi}{2}\right)\right) & .6 = \mathrm{Sec}\left(\mathrm{arcCos}\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right) + \mathrm{arcSin}\left(\mathrm{Cos}\left(\frac{13\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\,\mathrm{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\,\mathrm{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645115

$$No1 = \begin{bmatrix} .1 = \operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right) & .2 = \operatorname{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .3 = \operatorname{arcTan}(-1) \\ .4 = \operatorname{arcTan}(\sqrt{3}) & .5 = \operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .6 = \operatorname{arcSin}\left(\frac{-1}{2}\right) \\ .7 = \operatorname{arcSin}(1) & .8 = \operatorname{arcSin}(2) & .9 = \operatorname{arcCos}(-1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \operatorname{Tan}(\operatorname{arcTan}(1)) & .2 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{-1}{2}\right)\right) & .3 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \operatorname{Sin}\left(\operatorname{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) & .5 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{\pi}{6}\right)\right) & .6 = \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{\pi}{6}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{17\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(\frac{11\pi}{3}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{17\pi}{6}\right)\right) \\ .10 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) & .11 = \operatorname{Sec}\left(\operatorname{arcSin}\left(\operatorname{Cos}\left(-\frac{3\pi}{4}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Sec}\left(\operatorname{arcTan}\left(\frac{5}{6}\right)\right) & .2 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{4}{9}\right)\right) & .3 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{-1}{2}\right)\right) \\ .4 = \operatorname{Cos}(\operatorname{arcTan}(-6)) & .5 = \operatorname{Tan}\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{7}\right)\right) & .6 = \operatorname{Cot}\left(\operatorname{arcSin}\left(\frac{-5}{9}\right)\right) \\ .7 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{7}\right)\right) & .8 = \operatorname{Sin}(\operatorname{arcTan}(\sqrt{3})) & .9 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{1}{4}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{5}{6}\right) + \operatorname{arcSin}\left(\frac{-1}{5}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{1}{3}\right) + \operatorname{arcSin}\left(\frac{5}{8}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcSin}\left(\frac{1}{4}\right)\right) & .4 = \cos\left(2\operatorname{arcCos}\left(\frac{1}{3}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}(9\pi) + \operatorname{Sin}\left(\frac{9\pi}{2}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{13\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(-\frac{\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645116

$$No1 = \begin{bmatrix} .1 = \arcSin\left(\frac{\sqrt{3}}{2}\right) & .2 = \arcCos(2) & .3 = \arcCos(1) \\ .4 = \arcCos\left(\frac{-1}{2}\right) & .5 = \arcSin\left(-\frac{\sqrt{3}}{2}\right) & .6 = \arcSin(-1) \\ .7 = \arcCos\left(\frac{\sqrt{2}}{2}\right) & .8 = \arcTan(0) & .9 = \arcTan(-1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Tan}(\arcTan(1)) & .2 = \mathrm{Cos}\left(\arcSin\left(-\frac{\sqrt{3}}{2}\right)\right) & .3 = \mathrm{Sin}\left(\arcTan\left(\frac{\sqrt{3}}{3}\right)\right) \\ .4 = \mathrm{Tan}\left(\arcCos\left(-\frac{\sqrt{3}}{2}\right)\right) & .5 = \arcSin\left(\mathrm{Sin}\left(-\frac{\pi}{3}\right)\right) & .6 = \arcCos\left(\mathrm{Sin}\left(\frac{\pi}{3}\right)\right) \\ .7 = \arcSin\left(\mathrm{Sin}\left(\frac{17\pi}{6}\right)\right) & .8 = \arcCos\left(\mathrm{Cos}\left(\frac{11\pi}{3}\right)\right) & .9 = \arcTan\left(\mathrm{Tan}\left(\frac{13\pi}{6}\right)\right) \\ .10 = \mathrm{Cot}(\arcTan(-\sqrt{3})) & .11 = \mathrm{Csc}\left(\arcSin\left(\mathrm{Cos}\left(-\frac{\pi}{3}\right)\right)\right) & .12 = \mathrm{ArcCos}\left(\mathrm{Sin}\left(\mathrm{ArcCos}\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Tan}\left(\arcSin\left(\frac{-1}{4}\right)\right) & .2 = \mathrm{Cot}\left(\arcCos\left(\frac{-3}{5}\right)\right) & .3 = \mathrm{Sec}\left(\arcSin\left(-\frac{\sqrt{3}}{5}\right)\right) \\ .4 = \mathrm{Tan}\left(\arcCos\left(\frac{\sqrt{5}}{8}\right)\right) & .5 = \mathrm{Sin}\left(\arcCos\left(\frac{1}{2}\right)\right) & .6 = \mathrm{Csc}\left(\arcTan\left(\frac{-1}{7}\right)\right) \\ .7 = \mathrm{Sin}(\arcTan(-\sqrt{7})) & .8 = \mathrm{Cos}\left(\arcSin\left(\frac{3}{7}\right)\right) & .9 = \mathrm{Cos}\left(\arcTan\left(\frac{1}{4}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcCos\left(\frac{1}{2}\right) + \arcSin\left(\frac{1}{6}\right)\right) & .2 = \mathrm{Cos}\left(\arcCos\left(\frac{3}{5}\right) + \arcSin\left(\frac{-3}{8}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arcSin\left(\frac{2}{3}\right)\right) & .4 = \cos\left(2\arcSin\left(\frac{1}{2}\right)\right) \\ .5 = \arcTan\left(\mathrm{Cos}\left(\frac{7\pi}{2}\right) + \mathrm{Sin}\left(-\frac{9\pi}{2}\right)\right) & .6 = \mathrm{Sec}\left(\arcCos\left(\mathrm{Sin}\left(-\frac{11\pi}{6}\right)\right) + \arcSin\left(\mathrm{Cos}\left(\frac{4\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arcCos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arcSin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645117

$$No1 = \begin{bmatrix} .1 = \text{arcSin}(1) & .2 = \text{arcTan}(-\sqrt{3}) & .3 = \text{arcSin}\left(\frac{\sqrt{3}}{2}\right) \\ .4 = \text{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .5 = \text{arcSin}\left(-\frac{\sqrt{3}}{2}\right) & .6 = \text{arcTan}(1) \\ .7 = \text{arcCos}(-1) & .8 = \text{arcCos}\left(\frac{\sqrt{2}}{2}\right) & .9 = \text{arcSin}(-2) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Tan}\left(\text{arcTan}\left(\frac{\sqrt{3}}{3}\right)\right) & .2 = \text{Sin}\left(\text{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) & .3 = \text{Tan}\left(\text{arcCos}\left(\frac{\sqrt{3}}{2}\right)\right) \\ .4 = \text{Cos}(\text{arcTan}(-1)) & .5 = \text{arcTan}\left(\text{Tan}\left(-\frac{\pi}{4}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{\pi}{6}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{7\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(-\frac{\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(\frac{13\pi}{6}\right)\right) \\ .10 = \text{Csc}\left(\text{arcCos}\left(\frac{-1}{2}\right)\right) & .11 = \text{Csc}\left(\text{arcSin}\left(\text{Cos}\left(\frac{7\pi}{3}\right)\right)\right) & .12 = \text{ArcSin}\left(\text{Cos}\left(\text{ArcSin}\left(\frac{-1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcTan}\left(\frac{1}{7}\right)\right) & .2 = \text{Sin}\left(\text{arcCos}\left(\frac{2}{7}\right)\right) & .3 = \text{Cos}(\text{arcTan}(-\sqrt{3})) \\ .4 = \text{Cot}\left(\text{arcSin}\left(\frac{-1}{6}\right)\right) & .5 = \text{Tan}\left(\text{arcCos}\left(\frac{\sqrt{3}}{5}\right)\right) & .6 = \text{Csc}\left(\text{arcTan}\left(\frac{-3}{7}\right)\right) \\ .7 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{5}\right)\right) & .8 = \text{Tan}\left(\text{arcSin}\left(\frac{5}{8}\right)\right) & .9 = \text{Sec}\left(\text{arcCos}\left(\frac{-5}{6}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{5}\right) + \text{arcSin}\left(\frac{1}{5}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{1}{3}\right) + \text{arcSin}\left(\frac{-1}{2}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{2}{5}\right)\right) & .4 = \cos\left(2\,\text{arcCos}\left(\frac{1}{2}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}\left(\frac{7\pi}{2}\right) + \text{Sin}\left(\frac{7\pi}{2}\right)\right) & .6 = \text{Cot}\left(\text{arcCos}\left(\text{Sin}\left(\frac{17\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{4\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645118

$$No1 = \begin{bmatrix} .1 = \text{arcTan}\left(\frac{\sqrt{3}}{3}\right) & .2 = \text{arcTan}(-1) & .3 = \text{arcSin}\left(\frac{1}{2}\right) \\ .4 = \text{arcSin}\left(\frac{-1}{2}\right) & .5 = \text{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .6 = \text{arcSin}(1) \\ .7 = \text{arcCos}(0) & .8 = \text{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .9 = \text{arcSin}(-7) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\text{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \text{Tan}\left(\text{arcSin}\left(\frac{1}{2}\right)\right) & .3 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{2}\right)\right) \\ .4 = \text{Cos}\left(\text{arcSin}\left(-\frac{\sqrt{3}}{2}\right)\right) & .5 = \text{arcTan}\left(\text{Tan}\left(\frac{\pi}{4}\right)\right) & .6 = \text{arcCos}\left(\text{Sin}\left(-\frac{\pi}{6}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{5\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(\frac{10\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{11\pi}{6}\right)\right) \\ .10 = \text{Sec}(\text{arcTan}(1)) & .11 = \text{Tan}\left(\text{arcCos}\left(\text{Sin}\left(\frac{11\pi}{6}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Sec}\left(\text{arcSin}\left(\frac{5}{9}\right)\right) & .2 = \text{Sin}\left(\text{arcTan}\left(\frac{2}{7}\right)\right) & .3 = \text{Cos}\left(\text{arcTan}\left(-\frac{\sqrt{6}}{5}\right)\right) \\ .4 = \text{Tan}\left(\text{arcCos}\left(-\frac{\sqrt{3}}{5}\right)\right) & .5 = \text{Cos}\left(\text{arcSin}\left(\frac{-3}{4}\right)\right) & .6 = \text{Csc}\left(\text{arcTan}\left(\frac{-2}{5}\right)\right) \\ .7 = \text{Tan}\left(\text{arcSin}\left(-\frac{\sqrt{5}}{8}\right)\right) & .8 = \text{Sin}\left(\text{arcCos}\left(\frac{3}{7}\right)\right) & .9 = \text{Cot}\left(\text{arcCos}\left(\frac{-4}{5}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{3}\right) + \text{arcSin}\left(\frac{-5}{9}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{3}{7}\right) + \text{arcSin}\left(\frac{5}{7}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcCos}\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{3}{5}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}(10\pi) + \text{Sin}\left(-\frac{13\pi}{2}\right)\right) & .6 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{11\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(-\frac{2\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645119

$$No1 = \begin{bmatrix} .1 = \operatorname{arcTan}\left(\frac{\sqrt{3}}{3}\right) & .2 = \operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .3 = \operatorname{arcTan}(-1) \\ .4 = \operatorname{arcSin}(1) & .5 = \operatorname{arcSin}\left(-\frac{\sqrt{3}}{2}\right) & .6 = \operatorname{arcCos}(-1) \\ .7 = \operatorname{arcSin}(7) & .8 = \operatorname{arcSin}\left(\frac{1}{2}\right) & .9 = \operatorname{arcCos}\left(\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\operatorname{arcCos}\left(-\frac{\sqrt{2}}{2}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{1}{2}\right)\right) & .3 = \operatorname{Cos}\left(\operatorname{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) \\ .4 = \operatorname{Sin}(\operatorname{arcTan}(1)) & .5 = \operatorname{arcCos}\left(\operatorname{Cos}\left(\frac{5\pi}{6}\right)\right) & .6 = \operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{\pi}{6}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{7\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(-\frac{3\pi}{4}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(-\frac{13\pi}{6}\right)\right) \\ .10 = \operatorname{Csc}(\operatorname{arcTan}(-1)) & .11 = \operatorname{Cot}\left(\operatorname{arcSin}\left(\operatorname{Cos}\left(\frac{8\pi}{3}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Cot}\left(\operatorname{arcTan}\left(\frac{-1}{5}\right)\right) & .2 = \operatorname{Sin}\left(\operatorname{arcTan}\left(\frac{7}{2}\right)\right) & .3 = \operatorname{Cos}\left(\operatorname{arcTan}\left(-\frac{\sqrt{6}}{5}\right)\right) \\ .4 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{3}{5}\right)\right) & .5 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{-4}{7}\right)\right) & .6 = \operatorname{Tan}\left(\operatorname{arcCos}\left(\frac{-5}{8}\right)\right) \\ .7 = \operatorname{Sec}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{3}\right)\right) & .8 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{\sqrt{2}}{7}\right)\right) & .9 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\frac{3}{8}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{5}{9}\right) + \operatorname{arcSin}\left(\frac{3}{8}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{3}{8}\right) + \operatorname{arcSin}\left(\frac{-5}{8}\right)\right) \\ .3 = \operatorname{Sin}\left(2\operatorname{arcSin}\left(\frac{5}{7}\right)\right) & .4 = \cos\left(2\operatorname{arcSin}\left(\frac{1}{2}\right)\right) \\ .5 = \operatorname{arcTan}\left(\operatorname{Cos}(2\pi) + \operatorname{Sin}\left(-\frac{9\pi}{2}\right)\right) & .6 = \operatorname{Csc}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{17\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(-\frac{\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2\operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2\operatorname{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645120

$$No1 = \begin{bmatrix} .1 = \operatorname{arcTan}(1) & .2 = \operatorname{arcCos}\left(\frac{1}{2}\right) & .3 = \operatorname{arcCos}(0) \\ .4 = \operatorname{arcTan}(-\sqrt{3}) & .5 = \operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .6 = \operatorname{arcSin}(-1) \\ .7 = \operatorname{arcSin}\left(-\frac{\sqrt{3}}{2}\right) & .8 = \operatorname{arcCos}(-7) & .9 = \operatorname{arcCos}\left(\frac{-1}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .2 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) & .3 = \operatorname{Sin}\left(\operatorname{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) \\ .4 = \operatorname{Cos}\left(\operatorname{arcSin}\left(-\frac{\sqrt{2}}{2}\right)\right) & .5 = \operatorname{arcSin}\left(\operatorname{Sin}\left(\frac{\pi}{4}\right)\right) & .6 = \operatorname{arcCos}\left(\operatorname{Sin}\left(\frac{\pi}{6}\right)\right) \\ .7 = \operatorname{arcSin}\left(\operatorname{Sin}\left(-\frac{7\pi}{6}\right)\right) & .8 = \operatorname{arcCos}\left(\operatorname{Cos}\left(\frac{10\pi}{3}\right)\right) & .9 = \operatorname{arcTan}\left(\operatorname{Tan}\left(\frac{11\pi}{6}\right)\right) \\ .10 = \operatorname{Cot}\left(\operatorname{arcSin}\left(\frac{1}{2}\right)\right) & .11 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{11\pi}{6}\right)\right)\right) & .12 = \operatorname{ArcSin}\left(\operatorname{Cos}\left(\operatorname{ArcSin}\left(-\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \operatorname{Tan}\left(\operatorname{arcSin}\left(\frac{-1}{4}\right)\right) & .2 = \operatorname{Sin}\left(\operatorname{arcTan}\left(\frac{-1}{3}\right)\right) & .3 = \operatorname{Csc}\left(\operatorname{arcSin}\left(-\frac{\sqrt{2}}{3}\right)\right) \\ .4 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\frac{3}{7}\right)\right) & .5 = \operatorname{Cot}\left(\operatorname{arcTan}\left(\frac{5}{6}\right)\right) & .6 = \operatorname{Cos}\left(\operatorname{arcSin}\left(\frac{5}{6}\right)\right) \\ .7 = \operatorname{Cos}(\operatorname{arcTan}(\sqrt{7})) & .8 = \operatorname{Tan}\left(\operatorname{arcCos}\left(-\frac{\sqrt{2}}{3}\right)\right) & .9 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{-1}{6}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \operatorname{Sin}\left(\operatorname{arcCos}\left(\frac{4}{5}\right) + \operatorname{arcSin}\left(\frac{-2}{7}\right)\right) & .2 = \operatorname{Cos}\left(\operatorname{arcCos}\left(\frac{1}{6}\right) + \operatorname{arcSin}\left(\frac{2}{3}\right)\right) \\ .3 = \operatorname{Sin}\left(2 \operatorname{arcCos}\left(\frac{2}{5}\right)\right) & .4 = \cos\left(2 \operatorname{arcCos}\left(\frac{1}{6}\right)\right) \\ .5 = \operatorname{arcTan}(\operatorname{Cos}(\pi) + \operatorname{Sin}(-2\pi)) & .6 = \operatorname{Sec}\left(\operatorname{arcCos}\left(\operatorname{Sin}\left(-\frac{17\pi}{6}\right)\right) + \operatorname{arcSin}\left(\operatorname{Cos}\left(-\frac{5\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \operatorname{Sin}(2 \operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \operatorname{Cos}(2 \operatorname{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645121

$$No1 = \begin{bmatrix} .1 = \mathrm{arcCos}(-1) & .2 = \mathrm{arcTan}(0) & .3 = \mathrm{arcCos}\left(\frac{-1}{2}\right) \\ .4 = \mathrm{arcSin}(1) & .5 = \mathrm{arcSin}\left(-\frac{\sqrt{2}}{2}\right) & .6 = \mathrm{arcSin}(\sqrt{3}) \\ .7 = \mathrm{arcTan}\left(-\frac{\sqrt{3}}{3}\right) & .8 = \mathrm{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .9 = \mathrm{arcCos}\left(\frac{1}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\mathrm{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .2 = \mathrm{Tan}\left(\mathrm{arcCos}\left(\frac{\sqrt{3}}{2}\right)\right) & .3 = \mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{-1}{2}\right)\right) \\ .4 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) & .5 = \mathrm{arcTan}\left(\mathrm{Tan}\left(\frac{\pi}{3}\right)\right) & .6 = \mathrm{arcSin}\left(\mathrm{Cos}\left(\frac{2\pi}{3}\right)\right) \\ .7 = \mathrm{arcSin}\left(\mathrm{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \mathrm{arcCos}\left(\mathrm{Cos}\left(\frac{4\pi}{3}\right)\right) & .9 = \mathrm{arcTan}\left(\mathrm{Tan}\left(-\frac{7\pi}{6}\right)\right) \\ .10 = \mathrm{Csc}\left(\mathrm{arcSin}\left(-\frac{\sqrt{3}}{2}\right)\right) & .11 = \mathrm{Tan}\left(\mathrm{arcSin}\left(\mathrm{Cos}\left(-\frac{5\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{-1}{3}\right)\right) & .2 = \mathrm{Cos}\left(\mathrm{arcTan}\left(\frac{4}{5}\right)\right) & .3 = \mathrm{Tan}\left(\mathrm{arcSin}\left(\frac{-1}{4}\right)\right) \\ .4 = \mathrm{Cot}\left(\mathrm{arcCos}\left(-\frac{\sqrt{5}}{8}\right)\right) & .5 = \mathrm{Sec}\left(\mathrm{arcTan}\left(\frac{-3}{4}\right)\right) & .6 = \mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{\sqrt{6}}{11}\right)\right) \\ .7 = \mathrm{Tan}\left(\mathrm{arcCos}\left(\frac{1}{3}\right)\right) & .8 = \mathrm{Csc}\left(\mathrm{arcSin}\left(\frac{4}{7}\right)\right) & .9 = \mathrm{Sin}\left(\mathrm{arcTan}\left(-\frac{\sqrt{5}}{6}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{1}{2}\right) + \mathrm{arcSin}\left(\frac{1}{2}\right)\right) & .2 = \mathrm{Cos}\left(\mathrm{arcCos}\left(\frac{2}{5}\right) + \mathrm{arcSin}\left(\frac{-1}{2}\right)\right) \\ .3 = \mathrm{Sin}\left(2\,\mathrm{arcSin}\left(\frac{1}{5}\right)\right) & .4 = \cos\left(2\,\mathrm{arcSin}\left(\frac{5}{8}\right)\right) \\ .5 = \mathrm{arcTan}\left(\mathrm{Cos}\left(\frac{7\pi}{2}\right) + \mathrm{Sin}\left(-\frac{5\pi}{2}\right)\right) & .6 = \mathrm{Cot}\left(\mathrm{arcCos}\left(\mathrm{Sin}\left(\frac{13\pi}{6}\right)\right) + \mathrm{arcSin}\left(\mathrm{Cos}\left(\frac{10\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\,\mathrm{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\,\mathrm{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645122

$$No1 = \begin{bmatrix} .1 = \mathrm{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .2 = \mathrm{arcSin}\left(\frac{\sqrt{3}}{2}\right) & .3 = \mathrm{arcSin}(1) \\ .4 = \mathrm{arcTan}(0) & .5 = \mathrm{arcCos}(0) & .6 = \mathrm{arcCos}\left(\frac{\sqrt{2}}{2}\right) \\ .7 = \mathrm{arcSin}\left(\frac{-1}{2}\right) & .8 = \mathrm{arcTan}(-\sqrt{3}) & .9 = \mathrm{arcSin}(-2) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\mathrm{arcCos}\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \mathrm{Sin}(\mathrm{arcTan}(\sqrt{3})) & .3 = \mathrm{Tan}\left(\mathrm{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) \\ .4 = \mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{1}{2}\right)\right) & .5 = \mathrm{arcSin}\left(\mathrm{Sin}\left(\frac{\pi}{6}\right)\right) & .6 = \mathrm{arcSin}\left(\mathrm{Cos}\left(\frac{\pi}{4}\right)\right) \\ .7 = \mathrm{arcSin}\left(\mathrm{Sin}\left(-\frac{13\pi}{6}\right)\right) & .8 = \mathrm{arcCos}\left(\mathrm{Cos}\left(-\frac{3\pi}{4}\right)\right) & .9 = \mathrm{arcTan}\left(\mathrm{Tan}\left(-\frac{17\pi}{6}\right)\right) \\ .10 = \mathrm{Cot}\left(\mathrm{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) & .11 = \mathrm{Tan}\left(\mathrm{arcCos}\left(\mathrm{Sin}\left(-\frac{11\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Cos}(\mathrm{arcTan}(-\sqrt{6})) & .2 = \mathrm{Cos}\left(\mathrm{arcSin}\left(\frac{2}{7}\right)\right) & .3 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{1}{5}\right)\right) \\ .4 = \mathrm{Csc}\left(\mathrm{arcSin}\left(\frac{\sqrt{5}}{6}\right)\right) & .5 = \mathrm{Sec}\left(\mathrm{arcTan}\left(\frac{-2}{7}\right)\right) & .6 = \mathrm{Tan}\left(\mathrm{arcCos}\left(\frac{\sqrt{3}}{7}\right)\right) \\ .7 = \mathrm{Cot}\left(\mathrm{arcCos}\left(\frac{-4}{5}\right)\right) & .8 = \mathrm{Sin}\left(\mathrm{arcTan}\left(\frac{7}{3}\right)\right) & .9 = \mathrm{Tan}\left(\mathrm{arcSin}\left(\frac{-5}{9}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\mathrm{arcCos}\left(\frac{2}{5}\right) + \mathrm{arcSin}\left(\frac{1}{5}\right)\right) & .2 = \mathrm{Cos}\left(\mathrm{arcCos}\left(\frac{2}{3}\right) + \mathrm{arcSin}\left(\frac{-4}{5}\right)\right) \\ .3 = \mathrm{Sin}\left(2\,\mathrm{arcCos}\left(\frac{5}{6}\right)\right) & .4 = \cos\left(2\,\mathrm{arcCos}\left(\frac{4}{9}\right)\right) \\ .5 = \mathrm{arcTan}\left(\mathrm{Cos}(9\pi) + \mathrm{Sin}\left(\frac{5\pi}{2}\right)\right) & .6 = \mathrm{Cot}\left(\mathrm{arcCos}\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right) + \mathrm{arcSin}\left(\mathrm{Cos}\left(\frac{7\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\,\mathrm{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\,\mathrm{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645123

$$No1 = \begin{bmatrix} .1 = \arcsin\left(\frac{1}{2}\right) & .2 = \arccos(-7) & .3 = \arctan(1) \\ .4 = \arcsin\left(\frac{-1}{2}\right) & .5 = \arccos\left(-\frac{\sqrt{2}}{2}\right) & .6 = \arctan(0) \\ .7 = \arccos\left(\frac{\sqrt{3}}{2}\right) & .8 = \arccos(0) & .9 = \arcsin(1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcsin\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \mathrm{Tan}\left(\arccos\left(\frac{\sqrt{2}}{2}\right)\right) & .3 = \mathrm{Cos}\left(\arcsin\left(\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \mathrm{Sin}\left(\arccos\left(\frac{-1}{2}\right)\right) & .5 = \arctan\left(\mathrm{Tan}\left(\frac{\pi}{6}\right)\right) & .6 = \arcsin\left(\mathrm{Cos}\left(\frac{3\pi}{4}\right)\right) \\ .7 = \arcsin\left(\mathrm{Sin}\left(\frac{7\pi}{6}\right)\right) & .8 = \arccos\left(\mathrm{Cos}\left(\frac{10\pi}{3}\right)\right) & .9 = \arctan\left(\mathrm{Tan}\left(\frac{7\pi}{6}\right)\right) \\ .10 = \mathrm{Csc}\left(\arccos\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \mathrm{Cot}\left(\arccos\left(\mathrm{Sin}\left(-\frac{5\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Tan}\left(\arcsin\left(\frac{-1}{2}\right)\right) & .2 = \mathrm{Tan}\left(\arccos\left(\frac{\sqrt{6}}{7}\right)\right) & .3 = \mathrm{Cot}\left(\arccos\left(\frac{-4}{9}\right)\right) \\ .4 = \mathrm{Sec}\left(\arctan\left(\frac{4}{3}\right)\right) & .5 = \mathrm{Sin}\left(\arccos\left(\frac{2}{3}\right)\right) & .6 = \mathrm{Cos}\left(\arcsin\left(\frac{4}{9}\right)\right) \\ .7 = \mathrm{Cos}\left(\arctan\left(\frac{-1}{6}\right)\right) & .8 = \mathrm{Csc}\left(\arcsin\left(-\frac{\sqrt{2}}{7}\right)\right) & .9 = \mathrm{Sin}\left(\arctan\left(\frac{\sqrt{5}}{2}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{1}{3}\right) + \arcsin\left(\frac{5}{7}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{4}{7}\right) + \arcsin\left(\frac{-1}{2}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arccos\left(\frac{1}{4}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{1}{4}\right)\right) \\ .5 = \arctan\left(\mathrm{Cos}(10\pi) + \mathrm{Sin}\left(-\frac{13\pi}{2}\right)\right) & .6 = \mathrm{Sec}\left(\arccos\left(\mathrm{Sin}\left(-\frac{13\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(\frac{7\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645124

$$No1 = \begin{bmatrix} .1 = \text{arcCos}\left(-\frac{\sqrt{2}}{2}\right) & .2 = \text{arcTan}(1) & .3 = \text{arcCos}\left(\frac{1}{2}\right) \\ .4 = \text{arcTan}(-\sqrt{3}) & .5 = \text{arcSin}(-1) & .6 = \text{arcCos}(-\sqrt{3}) \\ .7 = \text{arcCos}(0) & .8 = \text{arcSin}\left(\frac{\sqrt{2}}{2}\right) & .9 = \text{arcSin}\left(-\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcSin}\left(-\frac{\sqrt{3}}{2}\right)\right) & .2 = \text{Cos}\left(\text{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) & .3 = \text{Tan}\left(\text{arcCos}\left(\frac{\sqrt{2}}{2}\right)\right) \\ .4 = \text{Sin}(\text{arcTan}(1)) & .5 = \text{arcSin}\left(\text{Sin}\left(\frac{\pi}{3}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{\pi}{6}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{11\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(\frac{7\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(-\frac{13\pi}{6}\right)\right) \\ .10 = \text{Sec}\left(\text{arcCos}\left(\frac{-1}{2}\right)\right) & .11 = \text{Cot}\left(\text{arcSin}\left(\text{Cos}\left(\frac{13\pi}{3}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcTan}\left(\frac{1}{4}\right)\right) & .2 = \text{Sin}\left(\text{arcCos}\left(\frac{\sqrt{7}}{8}\right)\right) & .3 = \text{Cos}\left(\text{arcSin}\left(\frac{4}{7}\right)\right) \\ .4 = \text{Csc}\left(\text{arcTan}\left(\frac{-5}{2}\right)\right) & .5 = \text{Tan}\left(\text{arcCos}\left(\frac{2}{5}\right)\right) & .6 = \text{Cos}\left(\text{arcTan}\left(\frac{\sqrt{3}}{5}\right)\right) \\ .7 = \text{Tan}\left(\text{arcSin}\left(\frac{-4}{7}\right)\right) & .8 = \text{Cot}\left(\text{arcSin}\left(-\frac{\sqrt{3}}{4}\right)\right) & .9 = \text{Sec}\left(\text{arcCos}\left(\frac{-5}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{2}{3}\right) + \text{arcSin}\left(\frac{5}{9}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{4}{7}\right) + \text{arcSin}\left(\frac{-1}{2}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{3}{4}\right)\right) & .4 = \cos\left(2\,\text{arcCos}\left(\frac{3}{7}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}(5\pi) + \text{Sin}\left(\frac{13\pi}{2}\right)\right) & .6 = \text{Csc}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{17\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{5\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645125

$$No1 = \begin{bmatrix} .1 = \text{arcCos}(0) & .2 = \text{arcCos}\left(\frac{\sqrt{3}}{2}\right) & .3 = \text{arcSin}(\sqrt{2}) \\ .4 = \text{arcTan}\left(\frac{\sqrt{3}}{3}\right) & .5 = \text{arcTan}(-1) & .6 = \text{arcSin}\left(-\frac{\sqrt{2}}{2}\right) \\ .7 = \text{arcCos}\left(\frac{-1}{2}\right) & .8 = \text{arcSin}\left(\frac{1}{2}\right) & .9 = \text{arcSin}(-1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\text{arcCos}\left(\frac{-1}{2}\right)\right) & .2 = \text{Sin}\left(\text{arcTan}\left(-\frac{\sqrt{3}}{3}\right)\right) & .3 = \text{Cos}(\text{arcTan}(-\sqrt{3})) \\ .4 = \text{Tan}\left(\text{arcSin}\left(\frac{\sqrt{3}}{2}\right)\right) & .5 = \text{arcSin}\left(\text{Sin}\left(\frac{\pi}{4}\right)\right) & .6 = \text{arcSin}\left(\text{Cos}\left(\frac{\pi}{4}\right)\right) \\ .7 = \text{arcSin}\left(\text{Sin}\left(-\frac{11\,\pi}{6}\right)\right) & .8 = \text{arcCos}\left(\text{Cos}\left(\frac{4\,\pi}{3}\right)\right) & .9 = \text{arcTan}\left(\text{Tan}\left(\frac{7\,\pi}{6}\right)\right) \\ .10 = \text{Sec}\left(\text{arcSin}\left(\frac{\sqrt{2}}{2}\right)\right) & .11 = \text{Sec}\left(\text{arcSin}\left(\text{Cos}\left(-\frac{5\,\pi}{6}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(-\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Tan}\left(\text{arcCos}\left(\frac{\sqrt{5}}{6}\right)\right) & .2 = \text{Cos}\left(\text{arcTan}\left(\frac{1}{6}\right)\right) & .3 = \text{Sin}\left(\text{arcTan}\left(\frac{-6}{5}\right)\right) \\ .4 = \text{Cos}\left(\text{arcSin}\left(\frac{1}{2}\right)\right) & .5 = \text{Sin}\left(\text{arcCos}\left(\frac{3}{5}\right)\right) & .6 = \text{Sec}\left(\text{arcTan}\left(-\frac{\sqrt{3}}{5}\right)\right) \\ .7 = \text{Tan}\left(\text{arcSin}\left(\frac{-4}{9}\right)\right) & .8 = \text{Csc}\left(\text{arcCos}\left(\frac{-5}{6}\right)\right) & .9 = \text{Cot}\left(\text{arcSin}\left(-\frac{\sqrt{2}}{3}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{1}{6}\right) + \text{arcSin}\left(\frac{1}{6}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{5}{6}\right) + \text{arcSin}\left(\frac{-3}{8}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcSin}\left(\frac{4}{9}\right)\right) & .4 = \cos\left(2\,\text{arcSin}\left(\frac{5}{6}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}(10\,\pi) + \text{Sin}\left(-\frac{13\,\pi}{2}\right)\right) & .6 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(\frac{13\,\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{8\,\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\,\text{arcSin}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\,\text{arcCos}(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645126

$$No1 = \begin{bmatrix} .1 = \arcsin\left(\frac{-1}{2}\right) & .2 = \arcsin(-\sqrt{2}) & .3 = \arccos(0) \\ .4 = \arccos\left(-\frac{\sqrt{3}}{2}\right) & .5 = \arcsin\left(\frac{1}{2}\right) & .6 = \arccos\left(\frac{\sqrt{2}}{2}\right) \\ .7 = \arcsin(-1) & .8 = \arctan(-1) & .9 = \arctan(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcsin\left(\frac{1}{2}\right)\right) & .2 = \mathrm{Tan}\left(\arccos\left(\frac{1}{2}\right)\right) & .3 = \mathrm{Cos}\left(\arctan\left(-\frac{\sqrt{3}}{3}\right)\right) \\ .4 = \mathrm{Sin}(\arctan(-1)) & .5 = \arctan\left(\mathrm{Tan}\left(\frac{\pi}{3}\right)\right) & .6 = \arccos\left(\mathrm{Sin}\left(\frac{\pi}{4}\right)\right) \\ .7 = \arcsin\left(\mathrm{Sin}\left(-\frac{17\pi}{6}\right)\right) & .8 = \arccos\left(\mathrm{Cos}\left(-\frac{\pi}{6}\right)\right) & .9 = \arctan\left(\mathrm{Tan}\left(\frac{7\pi}{6}\right)\right) \\ .10 = \mathrm{Cot}\left(\arccos\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \mathrm{Sec}\left(\arcsin\left(\mathrm{Cos}\left(-\frac{3\pi}{4}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(-\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Tan}\left(\arcsin\left(\frac{5}{9}\right)\right) & .2 = \mathrm{Cos}\left(\arcsin\left(-\frac{\sqrt{5}}{9}\right)\right) & .3 = \mathrm{Sin}\left(\arccos\left(\frac{-5}{6}\right)\right) \\ .4 = \mathrm{Sec}\left(\arccos\left(\frac{5}{8}\right)\right) & .5 = \mathrm{Sin}\left(\arctan\left(\frac{-7}{4}\right)\right) & .6 = \mathrm{Cot}\left(\arctan\left(-\frac{\sqrt{7}}{3}\right)\right) \\ .7 = \mathrm{Tan}\left(\arccos\left(\frac{\sqrt{5}}{8}\right)\right) & .8 = \mathrm{Cos}\left(\arctan\left(\frac{3}{7}\right)\right) & .9 = \mathrm{Csc}\left(\arcsin\left(\frac{-1}{4}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{2}{7}\right) + \arcsin\left(\frac{1}{5}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{1}{4}\right) + \arcsin\left(\frac{-2}{3}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arccos\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{3}{4}\right)\right) \\ .5 = \arctan(\mathrm{Cos}(5\pi) + \mathrm{Sin}(-3\pi)) & .6 = \mathrm{Csc}\left(\arccos\left(\mathrm{Sin}\left(\frac{5\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(\frac{4\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arccos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645127

$$No1 = \begin{bmatrix} .1 = \arcSin(1) & .2 = \arcCos\left(-\frac{\sqrt{3}}{2}\right) & .3 = \arcCos(0) \\ .4 = \arcSin\left(\frac{\sqrt{2}}{2}\right) & .5 = \arcTan\left(\frac{\sqrt{3}}{3}\right) & .6 = \arcCos\left(\frac{1}{2}\right) \\ .7 = \arcCos(-\sqrt{3}) & .8 = \arcSin\left(-\frac{\sqrt{2}}{2}\right) & .9 = \arcTan(0) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\arcCos\left(\frac{-1}{2}\right)\right) & .2 = \text{Cos}(\arcTan(\sqrt{3})) & .3 = \text{Sin}(\arcTan(-1)) \\ .4 = \text{Tan}\left(\arcCos\left(-\frac{\sqrt{2}}{2}\right)\right) & .5 = \arcCos\left(\text{Cos}\left(\frac{\pi}{6}\right)\right) & .6 = \arcSin\left(\text{Cos}\left(\frac{3\pi}{4}\right)\right) \\ .7 = \arcSin\left(\text{Sin}\left(-\frac{17\pi}{6}\right)\right) & .8 = \arcCos\left(\text{Cos}\left(-\frac{3\pi}{4}\right)\right) & .9 = \arcTan\left(\text{Tan}\left(-\frac{11\pi}{6}\right)\right) \\ .10 = \text{Csc}\left(\arcSin\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \text{Cot}\left(\arcCos\left(\text{Sin}\left(-\frac{7\pi}{6}\right)\right)\right) & .12 = \text{ArcCos}\left(\text{Sin}\left(\text{ArcCos}\left(\frac{1}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \text{Cos}\left(\arcTan\left(-\frac{\sqrt{2}}{3}\right)\right) & .2 = \text{Sec}\left(\arcSin\left(\frac{\sqrt{3}}{5}\right)\right) & .3 = \text{Cos}\left(\arcSin\left(\frac{-3}{4}\right)\right) \\ .4 = \text{Cot}\left(\arcCos\left(\frac{-4}{5}\right)\right) & .5 = \text{Sin}\left(\arcTan\left(\frac{-1}{4}\right)\right) & .6 = \text{Tan}\left(\arcCos\left(\frac{\sqrt{7}}{9}\right)\right) \\ .7 = \text{Sin}\left(\arcCos\left(\frac{4}{7}\right)\right) & .8 = \text{Tan}\left(\arcSin\left(\frac{3}{5}\right)\right) & .9 = \text{Csc}\left(\arcTan\left(\frac{5}{7}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\arcCos\left(\frac{5}{9}\right) + \arcSin\left(\frac{-5}{9}\right)\right) & .2 = \text{Cos}\left(\arcCos\left(\frac{2}{7}\right) + \arcSin\left(\frac{1}{5}\right)\right) \\ .3 = \text{Sin}\left(2\arcCos\left(\frac{2}{3}\right)\right) & .4 = \cos\left(2\arcSin\left(\frac{4}{9}\right)\right) \\ .5 = \arcTan\left(\text{Cos}(2\pi) + \text{Sin}\left(-\frac{5\pi}{2}\right)\right) & .6 = \text{Csc}\left(\arcCos\left(\text{Sin}\left(\frac{7\pi}{6}\right)\right) + \arcSin\left(\text{Cos}\left(\frac{7\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \text{Sin}(2\arcSin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \text{Cos}(2\arcCos(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645128

$$No1 = \begin{bmatrix} .1 = \arccos(1) & .2 = \arctan(0) & .3 = \arctan\left(-\frac{\sqrt{3}}{3}\right) \\ .4 = \arcsin(0) & .5 = \arccos\left(-\frac{\sqrt{2}}{2}\right) & .6 = \arccos\left(\frac{\sqrt{3}}{2}\right) \\ .7 = \arcsin\left(-\frac{\sqrt{3}}{2}\right) & .8 = \arcsin(7) & .9 = \arcsin\left(\frac{\sqrt{2}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \cos\left(\arccos\left(\frac{1}{2}\right)\right) & .2 = \sin(\arctan(-\sqrt{3})) & .3 = \cos\left(\arcsin\left(\frac{\sqrt{3}}{2}\right)\right) \\ .4 = \tan\left(\arccos\left(\frac{\sqrt{3}}{2}\right)\right) & .5 = \arctan\left(\tan\left(-\frac{\pi}{6}\right)\right) & .6 = \arccos\left(\sin\left(-\frac{\pi}{3}\right)\right) \\ .7 = \arcsin\left(\sin\left(\frac{13\pi}{6}\right)\right) & .8 = \arccos\left(\cos\left(-\frac{2\pi}{3}\right)\right) & .9 = \arctan\left(\tan\left(\frac{17\pi}{6}\right)\right) \\ .10 = \cot\left(\arcsin\left(\frac{1}{2}\right)\right) & .11 = \sec\left(\arccos\left(\sin\left(\frac{11\pi}{6}\right)\right)\right) & .12 = \arccos\left(\sin\left(\arccos\left(\frac{\sqrt{2}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{3}{5}\right)\right) & .2 = \sin\left(\arctan\left(\frac{3}{5}\right)\right) & .3 = \tan\left(\arccos\left(\frac{\sqrt{5}}{6}\right)\right) \\ .4 = \cot\left(\arccos\left(\frac{-3}{8}\right)\right) & .5 = \cos\left(\arcsin\left(\frac{\sqrt{2}}{7}\right)\right) & .6 = \tan\left(\arcsin\left(\frac{2}{3}\right)\right) \\ .7 = \sec\left(\arcsin\left(\frac{-3}{5}\right)\right) & .8 = \csc\left(\arctan\left(\frac{\sqrt{7}}{5}\right)\right) & .9 = \cos\left(\arctan\left(\frac{-1}{2}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{-3}{7}\right)\right) & .2 = \cos\left(\arccos\left(\frac{1}{3}\right) + \arcsin\left(\frac{4}{7}\right)\right) \\ .3 = \sin\left(2\arccos\left(\frac{4}{5}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{4}{9}\right)\right) \\ .5 = \arctan(\cos(3\pi) + \sin(-3\pi)) & .6 = \csc\left(\arccos\left(\sin\left(-\frac{17\pi}{6}\right)\right) + \arcsin\left(\cos\left(\frac{5\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \sin(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \cos(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645129

$$No1 = \begin{bmatrix} .1 = \arcSin\left(\frac{\sqrt{3}}{2}\right) & .2 = \arcSin(1) & .3 = \arcSin(7) \\ .4 = \arcTan(0) & .5 = \arcTan(\sqrt{3}) & .6 = \arcCos\left(\frac{\sqrt{2}}{2}\right) \\ .7 = \arcCos(-1) & .8 = \arcCos\left(\frac{-1}{2}\right) & .9 = \arcSin\left(-\frac{\sqrt{3}}{2}\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcSin\left(\frac{-1}{2}\right)\right) & .2 = \mathrm{Sin}(\arcTan(-1)) & .3 = \mathrm{Tan}\left(\arcCos\left(\frac{1}{2}\right)\right) \\ .4 = \mathrm{Cos}(\arcTan(1)) & .5 = \arcTan\left(\mathrm{Tan}\left(\frac{\pi}{4}\right)\right) & .6 = \arcCos\left(\mathrm{Sin}\left(-\frac{\pi}{6}\right)\right) \\ .7 = \arcSin\left(\mathrm{Sin}\left(\frac{11\pi}{6}\right)\right) & .8 = \arcCos\left(\mathrm{Cos}\left(\frac{11\pi}{3}\right)\right) & .9 = \arcTan\left(\mathrm{Tan}\left(-\frac{7\pi}{6}\right)\right) \\ .10 = \mathrm{Cot}\left(\arcCos\left(-\frac{\sqrt{2}}{2}\right)\right) & .11 = \mathrm{Tan}\left(\arcCos\left(\mathrm{Sin}\left(\frac{17\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcSin}\left(\mathrm{Cos}\left(\mathrm{ArcSin}\left(\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \mathrm{Cos}\left(\arcSin\left(\frac{-3}{7}\right)\right) & .2 = \mathrm{Tan}\left(\arcSin\left(-\frac{\sqrt{5}}{6}\right)\right) & .3 = \mathrm{Sec}\left(\arcSin\left(\frac{1}{3}\right)\right) \\ .4 = \mathrm{Sin}(\arcTan(\sqrt{6})) & .5 = \mathrm{Csc}\left(\arcTan\left(\frac{-7}{3}\right)\right) & .6 = \mathrm{Tan}\left(\arcCos\left(\frac{-4}{5}\right)\right) \\ .7 = \mathrm{Cos}(\arcTan(5)) & .8 = \mathrm{Sin}\left(\arcCos\left(\frac{2}{5}\right)\right) & .9 = \mathrm{Cot}\left(\arcCos\left(\frac{\sqrt{3}}{4}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arcCos\left(\frac{3}{7}\right) + \arcSin\left(\frac{-1}{6}\right)\right) & .2 = \mathrm{Cos}\left(\arcCos\left(\frac{1}{2}\right) + \arcSin\left(\frac{1}{3}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arcCos\left(\frac{3}{8}\right)\right) & .4 = \cos\left(2\arcCos\left(\frac{1}{5}\right)\right) \\ .5 = \arcTan\left(\mathrm{Cos}(\pi) + \mathrm{Sin}\left(-\frac{3\pi}{2}\right)\right) & .6 = \mathrm{Sec}\left(\arcCos\left(\mathrm{Sin}\left(-\frac{11\pi}{6}\right)\right) + \arcSin\left(\mathrm{Cos}\left(\frac{4\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \mathrm{Sin}(2\arcSin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \mathrm{Cos}(2\arcSin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise5 for No.645130

$$No1 = \begin{bmatrix} .1 = \arcsin\left(-\frac{\sqrt{3}}{2}\right) & .2 = \arccos\left(\frac{\sqrt{3}}{2}\right) & .3 = \arccos(0) \\ .4 = \arccos\left(\frac{-1}{2}\right) & .5 = \arctan(0) & .6 = \arccos(-3) \\ .7 = \arcsin\left(\frac{1}{2}\right) & .8 = \arctan(\sqrt{3}) & .9 = \arcsin(1) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No2 = \begin{bmatrix} .1 = \sin\left(\arcsin\left(-\frac{\sqrt{2}}{2}\right)\right) & .2 = \sin\left(\arctan\left(\frac{\sqrt{3}}{3}\right)\right) & .3 = \tan\left(\arccos\left(\frac{1}{2}\right)\right) \\ .4 = \cos\left(\arcsin\left(\frac{\sqrt{3}}{2}\right)\right) & .5 = \arcsin\left(\sin\left(-\frac{\pi}{3}\right)\right) & .6 = \arcsin\left(\cos\left(\frac{\pi}{3}\right)\right) \\ .7 = \arcsin\left(\sin\left(-\frac{13\pi}{6}\right)\right) & .8 = \arccos\left(\cos\left(\frac{11\pi}{3}\right)\right) & .9 = \arctan\left(\tan\left(\frac{5\pi}{6}\right)\right) \\ .10 = \sec\left(\arccos\left(\frac{\sqrt{3}}{2}\right)\right) & .11 = \csc\left(\arccos\left(\sin\left(-\frac{11\pi}{6}\right)\right)\right) & .12 = \mathrm{ArcCos}\left(\sin\left(\mathrm{ArcCos}\left(-\frac{\sqrt{3}}{2}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No3 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{1}{2}\right)\right) & .2 = \cos\left(\arctan\left(\frac{\sqrt{5}}{2}\right)\right) & .3 = \cot\left(\arccos\left(\frac{\sqrt{5}}{8}\right)\right) \\ .4 = \tan\left(\arcsin\left(\frac{\sqrt{3}}{4}\right)\right) & .5 = \sec\left(\arctan\left(\frac{5}{2}\right)\right) & .6 = \tan\left(\arccos\left(\frac{-3}{5}\right)\right) \\ .7 = \sin\left(\arctan\left(\frac{-1}{4}\right)\right) & .8 = \csc\left(\arcsin\left(\frac{-5}{7}\right)\right) & .9 = \cos\left(\arcsin\left(\frac{1}{4}\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{2}{5}\right) + \arcsin\left(\frac{4}{7}\right)\right) & .2 = \cos\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{-4}{7}\right)\right) \\ .3 = \sin\left(2\arcsin\left(\frac{3}{5}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{4}{7}\right)\right) \\ .5 = \arctan(\cos(3\pi) + \sin(4\pi)) & .6 = \cot\left(\arccos\left(\sin\left(\frac{5\pi}{6}\right)\right) + \arcsin\left(\cos\left(\frac{10\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

$$No5 = \sin(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = \cos(2\arcsin(\alpha)), \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

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