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TrigonometryExercise5 for No.9844

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

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

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

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{1}{3}\right) + \arcsin\left(\frac{-2}{3}\right)\right) & .2 = \cos\left(\arccos\left(\frac{4}{7}\right) + \arcsin\left(\frac{1}{2}\right)\right) \\ .3 = \sin\left(2\arcsin\left(\frac{2}{5}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{1}{6}\right)\right) \\ .5 = \arctan\left(\cos(3\pi) + \sin\left(-\frac{15\pi}{2}\right)\right) & .6 = \csc\left(\arccos\left(\sin\left(-\frac{7\pi}{6}\right)\right) + \arcsin\left(\cos\left(\frac{8\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

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

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

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TrigonometryExercise5 for No.9872

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

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

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

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

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

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

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TrigonometryExercise5 for No.9873

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

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

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

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

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

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

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TrigonometryExercise5 for No.9884

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

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

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

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

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

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

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TrigonometryExercise5 for No.9885

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

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

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

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

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

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

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TrigonometryExercise5 for No.9895

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

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

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

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

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

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

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TrigonometryExercise5 for No.9898

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

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

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

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

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

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

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TrigonometryExercise5 for No.9899

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

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

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

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

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

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

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TrigonometryExercise5 for No.9920

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

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

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

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

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

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

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TrigonometryExercise5 for No.10000

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

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

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

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

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

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

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TrigonometryExercise5 for No.10017

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

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

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

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

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

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

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TrigonometryExercise5 for No.10025

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

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

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

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

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

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

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TrigonometryExercise5 for No.10057

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

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

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

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

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

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

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TrigonometryExercise5 for No.10061

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

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

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

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{3}{8}\right) + \arcsin\left(\frac{-1}{3}\right)\right) & .2 = \cos\left(\arccos\left(\frac{3}{4}\right) + \arcsin\left(\frac{5}{7}\right)\right) \\ .3 = \sin\left(2\arcsin\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{1}{2}\right)\right) \\ .5 = \arctan\left(\cos(9\pi) + \sin\left(-\frac{19\pi}{2}\right)\right) & .6 = \csc\left(\arccos\left(\sin\left(\frac{5\pi}{6}\right)\right) + \arcsin\left(\cos\left(\frac{4\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

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

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

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TrigonometryExercise5 for No.10071

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

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

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

$$No4 = \begin{bmatrix} .1 = \text{Sin}\left(\text{arcCos}\left(\frac{5}{7}\right) + \text{arcSin}\left(\frac{-1}{4}\right)\right) & .2 = \text{Cos}\left(\text{arcCos}\left(\frac{2}{3}\right) + \text{arcSin}\left(\frac{1}{2}\right)\right) \\ .3 = \text{Sin}\left(2\,\text{arcCos}\left(\frac{1}{3}\right)\right) & .4 = \cos\left(2\,\text{arcCos}\left(\frac{4}{5}\right)\right) \\ .5 = \text{arcTan}\left(\text{Cos}(9\pi) + \text{Sin}\left(-\frac{19\pi}{2}\right)\right) & .6 = \text{Sec}\left(\text{arcCos}\left(\text{Sin}\left(-\frac{11\pi}{6}\right)\right) + \text{arcSin}\left(\text{Cos}\left(\frac{10\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

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

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

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TrigonometryExercise5 for No.10088

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

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

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

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

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

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

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TrigonometryExercise5 for No.10385

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

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

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

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

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

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

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TrigonometryExercise5 for No.10387

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

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

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

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

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

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

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TrigonometryExercise5 for No.10914

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

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

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

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

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

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

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TrigonometryExercise5 for No.10945

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

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

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

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

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

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

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TrigonometryExercise5 for No.10954

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

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

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

$$No4 = \begin{bmatrix} .1 = \sin\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{2}{3}\right)\right) & .2 = \cos\left(\arccos\left(\frac{1}{2}\right) + \arcsin\left(\frac{-5}{7}\right)\right) \\ .3 = \sin\left(2\arccos\left(\frac{2}{7}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{2}{7}\right)\right) \\ .5 = \arctan\left(\cos(7\pi) + \sin\left(\frac{21\pi}{2}\right)\right) & .6 = \cot\left(\arccos\left(\sin\left(-\frac{13\pi}{6}\right)\right) + \arcsin\left(\cos\left(\frac{11\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

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

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

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TrigonometryExercise5 for No.10966

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

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

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

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

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

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

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TrigonometryExercise5 for No.11154

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

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

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

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

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

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

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TrigonometryExercise5 for No.11191

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

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

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

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

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

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

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TrigonometryExercise5 for No.11309

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

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

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

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

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

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

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TrigonometryExercise5 for No.12483

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

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

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

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

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

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

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TrigonometryExercise5 for No.12557

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

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

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

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

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

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

TrigonometryExercise5 for No.12637

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

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

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

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

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

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

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TrigonometryExercise5 for No.12689

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

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

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

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

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

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

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TrigonometryExercise5 for No.13349

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

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

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

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

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

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

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TrigonometryExercise5 for No.13519

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

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

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

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

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

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

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TrigonometryExercise5 for No.14276

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

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

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

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

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

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

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TrigonometryExercise5 for No.14380

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

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

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

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{1}{6}\right) + \arcsin\left(\frac{-1}{5}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{5}{7}\right) + \arcsin\left(\frac{4}{5}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arcsin\left(\frac{1}{2}\right)\right) & .4 = \cos\left(2\arcsin\left(\frac{2}{3}\right)\right) \\ .5 = \arctan\left(\mathrm{Cos}(4\pi) + \mathrm{Sin}\left(\frac{23\pi}{2}\right)\right) & .6 = \mathrm{Csc}\left(\arccos\left(\mathrm{Sin}\left(\frac{11\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(-\frac{5\pi}{6}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

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

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

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TrigonometryExercise5 for No.14393

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

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

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

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

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

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

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TrigonometryExercise5 for No.14417

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

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

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

$$No4 = \begin{bmatrix} .1 = \mathrm{Sin}\left(\arccos\left(\frac{1}{4}\right) + \arcsin\left(\frac{-2}{3}\right)\right) & .2 = \mathrm{Cos}\left(\arccos\left(\frac{5}{6}\right) + \arcsin\left(\frac{4}{9}\right)\right) \\ .3 = \mathrm{Sin}\left(2\arcsin\left(\frac{3}{5}\right)\right) & .4 = \cos\left(2\arccos\left(\frac{1}{2}\right)\right) \\ .5 = \arctan\left(\mathrm{Cos}(6\pi) + \mathrm{Sin}\left(\frac{19\pi}{2}\right)\right) & .6 = \mathrm{Csc}\left(\arccos\left(\mathrm{Sin}\left(\frac{5\pi}{6}\right)\right) + \arcsin\left(\mathrm{Cos}\left(\frac{4\pi}{3}\right)\right)\right) \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ ! \end{bmatrix}$$

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

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

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