

$$No1 = \begin{bmatrix} .1 = \cos\left(\frac{5\pi}{12}\right) & .2 = \sin(105^\circ) \\ .3 = \tan\left(\frac{\pi}{12}\right) & .4 = \sin\left(\frac{11\pi}{12}\right) \\ .5 = \tan(195^\circ) & .6 = \csc((-165)^\circ) \\ .7 = \sec\left(\frac{19\pi}{12}\right) & .8 = \cos\left(-\frac{23\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 2 \cos(22.5^\circ)^2 - 1 & .2 = \frac{\tan\left(\frac{2\pi}{5}\right) - \tan\left(\frac{\pi}{15}\right)}{1 + \tan\left(\frac{2\pi}{5}\right) \tan\left(\frac{\pi}{15}\right)} \\ .3 = \sin(65^\circ) \cos(20^\circ) - \cos(65^\circ) \sin(20^\circ) & .4 = \sin(18^\circ) \cos(12^\circ) + \cos(18^\circ) \sin(12^\circ) \\ .5 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 & .6 = 2 \sin\left(\frac{\pi}{8}\right) \cos\left(\frac{\pi}{8}\right) \\ .7 = \frac{2 \tan(15^\circ)}{1 - \tan(15^\circ)^2} & .8 = 1 - 2 \sin(15^\circ)^2 \\ .9 = \cos\left(\frac{\pi}{9}\right) \cos\left(\frac{7\pi}{18}\right) - \sin\left(\frac{\pi}{9}\right) \sin\left(\frac{7\pi}{18}\right) & .10 = \cos(40^\circ) \cos(10^\circ) + \sin(40^\circ) \sin(10^\circ) \end{bmatrix}, \begin{bmatrix} \frac{.}{.} \\ \frac{.}{.} \\ \left[\begin{matrix} P \\ V \\ S \\ S \end{matrix} \right] \\ \& \\ \left[\begin{matrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{matrix} \right] \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{5}{8} \right), Cond2 = \left(\cos(\beta) = \frac{2}{3} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-5}{6} \right), Cond2 = \left(\cos(\beta) = \frac{-5}{7} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(14^\circ) = 0.970), Question = \cos(7^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(56^\circ) = 0.559), Question = \sin(28^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos(105^\circ) & .2 = \sin\left(\frac{5\pi}{12}\right) \\ .3 = \tan\left(\frac{\pi}{12}\right) & .4 = \tan((-15)^\circ) \\ .5 = \sec\left(-\frac{7\pi}{12}\right) & .6 = \cot((-195)^\circ) \\ .7 = \cos\left(-\frac{23\pi}{12}\right) & .8 = \sin(195^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 1 - 2 \sin(22.5^\circ)^2 & .2 = \cos\left(\frac{7\pi}{36}\right) \cos\left(\frac{5\pi}{36}\right) - \sin\left(\frac{7\pi}{36}\right) \sin\left(\frac{5\pi}{36}\right) \\ .3 = \cos(15^\circ)^2 - \sin(15^\circ)^2 & .4 = \frac{\tan\left(\frac{11\pi}{36}\right) - \tan\left(\frac{\pi}{18}\right)}{1 + \tan\left(\frac{11\pi}{36}\right) \tan\left(\frac{\pi}{18}\right)} \\ .5 = \sin\left(\frac{2\pi}{9}\right) \cos\left(\frac{\pi}{18}\right) - \cos\left(\frac{2\pi}{9}\right) \sin\left(\frac{\pi}{18}\right) & .6 = \frac{\tan(25^\circ) + \tan(20^\circ)}{1 - \tan(25^\circ) \tan(20^\circ)} \\ .7 = \sin(20^\circ) \cos(10^\circ) + \cos(20^\circ) \sin(10^\circ) & .8 = \frac{2 \tan\left(\frac{\pi}{12}\right)}{1 - \tan\left(\frac{\pi}{12}\right)^2} \\ .9 = 2 \sin\left(\frac{\pi}{8}\right) \cos\left(\frac{\pi}{8}\right) & .10 = 2 \cos\left(\frac{\pi}{12}\right)^2 - 1 \end{bmatrix}, \begin{bmatrix} \div \\ (\\ \left[\begin{bmatrix} P \\ V \\ S \\ S \end{bmatrix} \right] \\ \& \\ \left[\begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix} \right] \\ \div \\ (\\ \div \\ (\\ \div \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{1}{5} \right), Cond2 = \left(\sin(\beta) = \frac{-4}{9} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{3\pi}{2}, B = 2\pi, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{5}{6} \right), Cond2 = \left(\sin(\beta) = \frac{2}{3} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(70^\circ) = 0.342), Question = \cos(35^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(16^\circ) = 0.961), Question = \sin(8^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$NoI = \begin{bmatrix} .1 = \sin(75^\circ) & .2 = \cos\left(\frac{7\pi}{12}\right) \\ .3 = \tan(15^\circ) & .4 = \csc(255^\circ) \\ .5 = \cot\left(-\frac{7\pi}{12}\right) & .6 = \tan\left(-\frac{11\pi}{12}\right) \\ .7 = \cos((-195)^\circ) & .8 = \sin\left(\frac{11\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \cos\left(\frac{11\pi}{36}\right)\cos\left(\frac{\pi}{18}\right) + \sin\left(\frac{11\pi}{36}\right)\sin\left(\frac{\pi}{18}\right) & .2 = 2\sin\left(\frac{\pi}{8}\right)\cos\left(\frac{\pi}{8}\right) \\ .3 = \frac{\tan\left(\frac{\pi}{9}\right) + \tan\left(\frac{5\pi}{36}\right)}{1 - \tan\left(\frac{\pi}{9}\right)\tan\left(\frac{5\pi}{36}\right)} & .4 = 2\cos\left(\frac{\pi}{12}\right)^2 - 1 \\ .5 = \frac{\tan(80^\circ) - \tan(20^\circ)}{1 + \tan(80^\circ)\tan(20^\circ)} & .6 = \cos(80^\circ)\cos(10^\circ) - \sin(80^\circ)\sin(10^\circ), \\ .7 = \frac{2\tan\left(\frac{\pi}{12}\right)}{1 - \tan\left(\frac{\pi}{12}\right)^2} & .8 = 1 - 2\sin(22.5^\circ)^2 \\ .9 = \cos(15^\circ)^2 - \sin(15^\circ)^2 & .10 = \sin\left(\frac{\pi}{18}\right)\cos\left(\frac{\pi}{9}\right) + \cos\left(\frac{\pi}{18}\right)\sin\left(\frac{\pi}{9}\right) \end{bmatrix}, \begin{bmatrix} \frac{\cdot}{\cdot} \\ \left[\begin{bmatrix} P \\ V \\ S \\ S \end{bmatrix} \right] \\ \& \\ \left[\begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix} \right] \\ \frac{\cdot}{\cdot} \\ \frac{\cdot}{\cdot} \\ \frac{\cdot}{\cdot} \\ \frac{\cdot}{\cdot} \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{5}{7} \right), Cond2 = \left(\sin(\beta) = \frac{-2}{3} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{\pi}{2}, B = \pi, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{-2}{3} \right), Cond2 = \left(\sin(\beta) = \frac{-3}{7} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha + \beta) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(32^\circ) = 0.848), Question = \cos(16^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(76^\circ) = 0.242), Question = \sin(38^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \sin\left(\frac{5\pi}{12}\right) & .2 = \cos(15^\circ) \\ .3 = \tan(105^\circ) & .4 = \cos((-345)^\circ) \\ .5 = \tan\left(-\frac{13\pi}{12}\right) & .6 = \cot\left(-\frac{7\pi}{12}\right) \\ .7 = \csc(195^\circ) & .8 = \sec((-15)^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 1 - 2 \sin\left(\frac{\pi}{8}\right)^2 & .2 = 2 \sin(22.5^\circ) \cos(22.5^\circ) \\ .3 = \sin(50^\circ) \cos(10^\circ) + \cos(50^\circ) \sin(10^\circ) & .4 = \frac{\tan\left(\frac{4\pi}{9}\right) - \tan\left(\frac{\pi}{9}\right)}{1 + \tan\left(\frac{4\pi}{9}\right) \tan\left(\frac{\pi}{9}\right)} \\ .5 = \sin\left(\frac{11\pi}{36}\right) \cos\left(\frac{\pi}{18}\right) - \cos\left(\frac{11\pi}{36}\right) \sin\left(\frac{\pi}{18}\right) & .6 = \frac{2 \tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} \\ .7 = \frac{\tan(30^\circ) + \tan(15^\circ)}{1 - \tan(30^\circ) \tan(15^\circ)} & .8 = 2 \cos(15^\circ)^2 - 1 \\ .9 = \cos(110^\circ) \cos(20^\circ) + \sin(110^\circ) \sin(20^\circ) & .10 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 \end{bmatrix}, \begin{bmatrix} \frac{.1}{.2} \\ \frac{.3}{.4} \\ \frac{.5}{.6} \\ \frac{.7}{.8} \\ \frac{.9}{.10} \end{bmatrix} \& \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{6} \right), Cond2 = \left(\cos(\beta) = \frac{-5}{6} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{3\pi}{2}, B = 2\pi, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-2}{5} \right), Cond2 = \left(\cos(\beta) = \frac{-1}{2} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(68^\circ) = 0.375), Question = \sin(34^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(22^\circ) = 0.927), Question = \cos(11^\circ)], \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos(15^\circ) & .2 = \sin\left(\frac{7\pi}{12}\right) \\ .3 = \tan(75^\circ) & .4 = \csc\left(-\frac{19\pi}{12}\right) \\ .5 = \sec(165^\circ) & .6 = \tan((-75^\circ)) \\ .7 = \cot\left(-\frac{\pi}{12}\right) & .8 = \cos\left(\frac{13\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \sin\left(\frac{5\pi}{36}\right)\cos\left(\frac{\pi}{9}\right) + \cos\left(\frac{5\pi}{36}\right)\sin\left(\frac{\pi}{9}\right) & .2 = 1 - 2\sin^2\left(\frac{\pi}{8}\right) \\ .3 = \cos^2\left(\frac{\pi}{12}\right) - \sin^2\left(\frac{\pi}{12}\right) & .4 = 2\cos^2(15^\circ) - 1 \\ .5 = \frac{2\tan\left(\frac{\pi}{12}\right)}{1 - \tan^2\left(\frac{\pi}{12}\right)} & .6 = 2\sin(22.5^\circ)\cos(22.5^\circ) \\ .7 = \frac{\tan(60^\circ) - \tan(15^\circ)}{1 + \tan(60^\circ)\tan(15^\circ)} & .8 = \frac{\tan(40^\circ) + \tan(20^\circ)}{1 - \tan(40^\circ)\tan(20^\circ)} \\ .9 = \cos\left(\frac{5\pi}{18}\right)\cos\left(\frac{\pi}{9}\right) + \sin\left(\frac{5\pi}{18}\right)\sin\left(\frac{\pi}{9}\right) & .10 = \sin\left(\frac{17\pi}{30}\right)\cos\left(\frac{\pi}{15}\right) - \cos\left(\frac{17\pi}{30}\right)\sin\left(\frac{\pi}{15}\right) \end{bmatrix}, \begin{bmatrix} \therefore \\ \therefore (\\ \left[\begin{matrix} P \\ V \\ S \\ S \end{matrix} \right] \\ \& \\ \left[\begin{matrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{matrix} \right] \\ \therefore \\ \therefore (\\ \therefore \\ \therefore (\end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{5}{6} \right), Cond2 = \left(\cos(\beta) = \frac{-2}{7} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{\pi}{2}, B = \pi, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{-3}{7} \right), Cond2 = \left(\sin(\beta) = \frac{-2}{3} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(48^\circ) = 0.669), Question = \sin(24^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(78^\circ) = 0.208), Question = \cos(39^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{2} \right), Cond2 = \left(\cos(\beta) = \frac{-1}{5} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{3\pi}{2}, B = 2\pi, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{5}{9} \right), Cond2 = \left(\sin(\beta) = \frac{-5}{6} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right]$$

$$No1 = \begin{bmatrix} .1 = \sin\left(\frac{5\pi}{12}\right) & .2 = \cos(15^\circ) \\ .3 = \tan(105^\circ) & .4 = \sin(345^\circ) \\ .5 = \sec\left(-\frac{17\pi}{12}\right) & .6 = \csc(195^\circ) \\ .7 = \cot\left(-\frac{19\pi}{12}\right) & .8 = \cos(255^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \cos(15^\circ)^2 - \sin(15^\circ)^2 & .2 = \frac{\tan(65^\circ) - \tan(20^\circ)}{1 + \tan(65^\circ)\tan(20^\circ)} \\ .3 = \sin\left(\frac{2\pi}{9}\right)\cos\left(\frac{\pi}{9}\right) + \cos\left(\frac{2\pi}{9}\right)\sin\left(\frac{\pi}{9}\right) & .4 = 2\sin\left(\frac{\pi}{8}\right)\cos\left(\frac{\pi}{8}\right) \\ .5 = \sin\left(\frac{7\pi}{18}\right)\cos\left(\frac{\pi}{18}\right) - \cos\left(\frac{7\pi}{18}\right)\sin\left(\frac{\pi}{18}\right) & .6 = 1 - 2\sin(22.5^\circ)^2 \\ .7 = \cos(12^\circ)\cos(33^\circ) - \sin(12^\circ)\sin(33^\circ) & .8 = \frac{2\tan\left(\frac{\pi}{8}\right)}{1 - \tan\left(\frac{\pi}{8}\right)^2} \\ .9 = 2\cos\left(\frac{\pi}{12}\right)^2 - 1 & .10 = \cos\left(\frac{7\pi}{30}\right)\cos\left(\frac{\pi}{15}\right) + \sin\left(\frac{7\pi}{30}\right)\sin\left(\frac{\pi}{15}\right) \end{bmatrix}, \begin{bmatrix} \frac{.}{.} \\ \frac{.}{.} \\ \left[\begin{matrix} P \\ V \\ S \\ S \end{matrix} \right] \\ \& \\ \left[\begin{matrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{matrix} \right] \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{1}{3} \right), Cond2 = \left(\sin(\beta) = \frac{-4}{5} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-1}{2} \right), Cond2 = \left(\cos(\beta) = \frac{-5}{9} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(56^\circ) = 0.559), Question = \sin(28^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(12^\circ) = 0.978), Question = \cos(6^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$NoI = \begin{bmatrix} .1 = \cos(105^\circ) & .2 = \sin\left(\frac{5\pi}{12}\right) \\ .3 = \tan(15^\circ) & .4 = \cot(255^\circ) \\ .5 = \tan\left(\frac{19\pi}{12}\right) & .6 = \sin((-195^\circ)) \\ .7 = \cos\left(-\frac{17\pi}{12}\right) & .8 = \csc\left(\frac{23\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \cos(15^\circ)^2 - \sin(15^\circ)^2 & .2 = \frac{2\tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} \\ .3 = \cos\left(\frac{\pi}{9}\right)\cos\left(\frac{7\pi}{18}\right) - \sin\left(\frac{\pi}{9}\right)\sin\left(\frac{7\pi}{18}\right) & .4 = 2\sin\left(\frac{\pi}{8}\right)\cos\left(\frac{\pi}{8}\right) \\ .5 = \frac{\tan\left(\frac{5\pi}{36}\right) + \tan\left(\frac{7\pi}{36}\right)}{1 - \tan\left(\frac{5\pi}{36}\right)\tan\left(\frac{7\pi}{36}\right)} & .6 = \sin(25^\circ)\cos(5^\circ) + \cos(25^\circ)\sin(5^\circ) \\ .7 = \frac{\tan\left(\frac{2\pi}{5}\right) - \tan\left(\frac{\pi}{15}\right)}{1 + \tan\left(\frac{2\pi}{5}\right)\tan\left(\frac{\pi}{15}\right)} & .8 = \sin(50^\circ)\cos(20^\circ) - \cos(50^\circ)\sin(20^\circ) \\ .9 = 2\cos(22.5^\circ)^2 - 1 & .10 = 1 - 2\sin\left(\frac{\pi}{12}\right)^2 \end{bmatrix}, \begin{bmatrix} \cdot \\ \cdot \\ P \\ V \\ S \\ S \\ \& \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{5}{6} \right), Cond2 = \left(\cos(\beta) = \frac{-4}{9} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-3}{5} \right), Cond2 = \left(\cos(\beta) = \frac{1}{2} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\text{Cos}(58^\circ) = 0.530), Question = \text{Cos}(29^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(86^\circ) = 0.070), Question = \sin(43^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos(75^\circ) & .2 = \sin\left(\frac{\pi}{12}\right) \\ .3 = \tan(105^\circ) & .4 = \sin(345^\circ) \\ .5 = \tan\left(\frac{17\pi}{12}\right) & .6 = \cot\left(\frac{11\pi}{12}\right) \\ .7 = \cos((-75^\circ)) & .8 = \sec\left(-\frac{7\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \cos(22.5^\circ)^2 - \sin(22.5^\circ)^2 & .2 = \cos(105^\circ)\cos(15^\circ) + \sin(105^\circ)\sin(15^\circ) \\ .3 = \frac{\tan\left(\frac{2\pi}{9}\right) - \tan\left(\frac{\pi}{18}\right)}{1 + \tan\left(\frac{2\pi}{9}\right)\tan\left(\frac{\pi}{18}\right)} & .4 = \sin\left(\frac{17\pi}{36}\right)\cos\left(\frac{5\pi}{36}\right) - \cos\left(\frac{17\pi}{36}\right)\sin\left(\frac{5\pi}{36}\right) \\ .5 = 2\cos\left(\frac{\pi}{12}\right)^2 - 1 & .6 = 1 - 2\sin(15^\circ)^2 \\ .7 = \frac{\tan(5^\circ) + \tan(25^\circ)}{1 - \tan(5^\circ)\tan(25^\circ)} & .8 = \frac{2\tan\left(\frac{\pi}{12}\right)}{1 - \tan\left(\frac{\pi}{12}\right)^2} \\ .9 = \cos\left(\frac{\pi}{18}\right)\cos\left(\frac{7\pi}{36}\right) - \sin\left(\frac{\pi}{18}\right)\sin\left(\frac{7\pi}{36}\right) & .10 = 2\sin\left(\frac{\pi}{8}\right)\cos\left(\frac{\pi}{8}\right) \end{bmatrix}, \begin{bmatrix} \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \end{bmatrix} \& \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$No3 = \begin{bmatrix} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{1}{3} \right), Cond2 = \left(\sin(\beta) = \frac{-5}{9} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \right] \end{bmatrix}, No4 = \begin{bmatrix} \left[A = \frac{\pi}{2}, B = \pi, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{-1}{2} \right), Cond2 = \left(\sin(\beta) = \frac{-2}{7} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha - \beta) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{bmatrix} \right] \end{bmatrix}$$

$$No5 = [Cond = (\cos(12^\circ) = 0.978), Question = \cos(6^\circ)], \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(84^\circ) = 0.105), Question = \sin(42^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \sin\left(\frac{7\pi}{12}\right) & .2 = \cos(75^\circ) \\ .3 = \tan\left(\frac{\pi}{12}\right) & .4 = \cos\left(\frac{11\pi}{12}\right) \\ .5 = \cot(345^\circ) & .6 = \csc\left(-\frac{17\pi}{12}\right) \\ .7 = \sin((-195)^\circ) & .8 = \sec((-285)^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 & .2 = \sin(78^\circ)\cos(12^\circ) + \cos(78^\circ)\sin(12^\circ) \\ .3 = \sin(105^\circ)\cos(15^\circ) - \cos(105^\circ)\sin(15^\circ) & .4 = \frac{2\tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} \\ .5 = 1 - 2\sin\left(\frac{\pi}{8}\right)^2 & .6 = 2\cos(22.5^\circ)^2 - 1 \\ .7 = \frac{\tan\left(\frac{5\pi}{36}\right) + \tan\left(\frac{\pi}{36}\right)}{1 - \tan\left(\frac{5\pi}{36}\right)\tan\left(\frac{\pi}{36}\right)} & .8 = \cos\left(\frac{19\pi}{60}\right)\cos\left(\frac{\pi}{15}\right) + \sin\left(\frac{19\pi}{60}\right)\sin\left(\frac{\pi}{15}\right) \\ .9 = \frac{\tan(40^\circ) - \tan(10^\circ)}{1 + \tan(40^\circ)\tan(10^\circ)} & .10 = 2\sin(15^\circ)\cos(15^\circ) \end{bmatrix}, \begin{bmatrix} \frac{.1}{.2} \\ \frac{P}{V} \\ \frac{S}{S} \\ \frac{S}{S} \\ \& \\ \frac{M}{a} \\ \frac{t}{h} \\ \frac{@}{M} \\ \frac{U}{T} \\ \frac{.1}{.2} \\ \frac{.1}{.2} \\ \frac{.1}{.2} \end{bmatrix}$$

$$No3 = \begin{bmatrix} \begin{bmatrix} A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \end{bmatrix} \\ \begin{bmatrix} Cond1 = \left(\sin(\alpha) = \frac{2}{3} \right), Cond2 = \left(\cos(\beta) = \frac{5}{9} \right) \end{bmatrix} \\ \begin{bmatrix} \begin{bmatrix} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \end{bmatrix}, \quad No4 = \begin{bmatrix} \begin{bmatrix} A = \frac{\pi}{2}, B = \pi, C = \pi, D = \frac{3\pi}{2} \end{bmatrix} \\ \begin{bmatrix} Cond1 = \left(\sin(\alpha) = \frac{1}{3} \right), Cond2 = \left(\cos(\beta) = \frac{-5}{8} \right) \end{bmatrix} \\ \begin{bmatrix} \begin{bmatrix} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{bmatrix} \end{bmatrix}$$

$$No5 = [Cond = (\cos(10^\circ) = 0.985), Question = \cos(5^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(38^\circ) = 0.788), Question = \sin(19^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$NoI = \begin{bmatrix} .1 = \sin(75^\circ) & .2 = \cos\left(\frac{\pi}{12}\right) \\ .3 = \tan(105^\circ) & .4 = \sin((-165)^\circ) \\ .5 = \tan\left(-\frac{\pi}{12}\right) & .6 = \csc((-195)^\circ) \\ .7 = \cot\left(-\frac{19\pi}{12}\right) & .8 = \sec\left(-\frac{5\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 2 \cos(15^\circ)^2 - 1 & .2 = \cos\left(\frac{13\pi}{30}\right)\cos\left(\frac{\pi}{15}\right) - \sin\left(\frac{13\pi}{30}\right)\sin\left(\frac{\pi}{15}\right) \\ .3 = \sin(57^\circ)\cos(12^\circ) - \cos(57^\circ)\sin(12^\circ) & .4 = \cos\left(\frac{\pi}{8}\right)^2 - \sin\left(\frac{\pi}{8}\right)^2 \\ .5 = 2 \sin(22.5^\circ)\cos(22.5^\circ) & .6 = \cos\left(\frac{7\pi}{18}\right)\cos\left(\frac{\pi}{18}\right) + \sin\left(\frac{7\pi}{18}\right)\sin\left(\frac{\pi}{18}\right) \\ .7 = 1 - 2 \sin\left(\frac{\pi}{12}\right)^2 & .8 = \frac{\tan(42^\circ) - \tan(12^\circ)}{1 + \tan(42^\circ)\tan(12^\circ)} \\ .9 = \frac{2 \tan(15^\circ)}{1 - \tan(15^\circ)^2} & .10 = \sin(25^\circ)\cos(35^\circ) + \cos(25^\circ)\sin(35^\circ) \end{bmatrix}, \begin{bmatrix} \cdot \\ \cdot \\ P \\ V \\ S \\ S \\ \& \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{2} \right), Cond2 = \left(\cos(\beta) = \frac{-1}{6} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{\pi}{2}, B = \pi, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{-3}{4} \right), Cond2 = \left(\sin(\beta) = \frac{-1}{2} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(48^\circ) = 0.669), Question = \cos(24^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(18^\circ) = 0.951), Question = \sin(9^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

[illegible]

$$No1 = \begin{bmatrix} .1 = \sin\left(\frac{7\pi}{12}\right) & .2 = \cos(15^\circ) \\ .3 = \tan(75^\circ) & .4 = \cot(165^\circ) \\ .5 = \sec\left(-\frac{7\pi}{12}\right) & .6 = \tan\left(-\frac{23\pi}{12}\right) \\ .7 = \csc((-165)^\circ) & .8 = \cos(345^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 1 - 2 \sin(15^\circ)^2 & .2 = \frac{\tan(40^\circ) - \tan(10^\circ)}{1 + \tan(40^\circ) \tan(10^\circ)} \\ .3 = 2 \cos\left(\frac{\pi}{12}\right)^2 - 1 & .4 = \cos(80^\circ) \cos(10^\circ) - \sin(80^\circ) \sin(10^\circ) \\ .5 = \sin\left(\frac{\pi}{15}\right) \cos\left(\frac{\pi}{10}\right) + \cos\left(\frac{\pi}{15}\right) \sin\left(\frac{\pi}{10}\right) & .6 = \sin(80^\circ) \cos(20^\circ) - \cos(80^\circ) \sin(20^\circ) \\ .7 = \frac{\tan\left(\frac{7\pi}{36}\right) + \tan\left(\frac{\pi}{18}\right)}{1 - \tan\left(\frac{7\pi}{36}\right) \tan\left(\frac{\pi}{18}\right)} & .8 = \frac{2 \tan\left(\frac{\pi}{12}\right)}{1 - \tan\left(\frac{\pi}{12}\right)^2} \\ .9 = \cos\left(\frac{\pi}{8}\right)^2 - \sin\left(\frac{\pi}{8}\right)^2 & .10 = 2 \sin(22.5^\circ) \cos(22.5^\circ) \end{bmatrix}, \begin{bmatrix} :) \\ :(\\ \left[\begin{bmatrix} P \\ V \\ S \\ S \end{bmatrix} \right] \\ \& \\ \left[\begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix} \right] \\ :) \\ :(\\ :) \\ :(\end{bmatrix}$$

$$No3 = \begin{bmatrix} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{5}{8} \right), Cond2 = \left(\sin(\beta) = \frac{-3}{8} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha - \beta) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{bmatrix} \right] \end{bmatrix}, No4 = \begin{bmatrix} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{-2}{3} \right), Cond2 = \left(\sin(\beta) = \frac{3}{8} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \right] \end{bmatrix}$$

$$No5 = [Cond = (\cos(40^\circ) = 0.766), Question = \cos(20^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(86^\circ) = 0.070), Question = \sin(43^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \sin\left(\frac{\pi}{12}\right) & .2 = \cos(105^\circ) \\ .3 = \tan(75^\circ) & .4 = \sec(195^\circ) \\ .5 = \csc\left(\frac{11\pi}{12}\right) & .6 = \cos\left(-\frac{17\pi}{12}\right) \\ .7 = \sin(285^\circ) & .8 = \cot((-285)^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \sin\left(\frac{\pi}{18}\right)\cos\left(\frac{5\pi}{18}\right) + \cos\left(\frac{\pi}{18}\right)\sin\left(\frac{5\pi}{18}\right) & .2 = \frac{2\tan\left(\frac{\pi}{8}\right)}{1 - \tan\left(\frac{\pi}{8}\right)^2} \\ .3 = 1 - 2\sin(15^\circ)^2 & .4 = 2\cos(22.5^\circ)^2 - 1 \\ .5 = \frac{\tan(40^\circ) - \tan(10^\circ)}{1 + \tan(40^\circ)\tan(10^\circ)} & .6 = 2\sin\left(\frac{\pi}{8}\right)\cos\left(\frac{\pi}{8}\right) \\ .7 = \sin\left(\frac{7\pi}{18}\right)\cos\left(\frac{\pi}{18}\right) - \cos\left(\frac{7\pi}{18}\right)\sin\left(\frac{\pi}{18}\right) & .8 = \cos(10^\circ)\cos(20^\circ) - \sin(10^\circ)\sin(20^\circ) \\ .9 = \cos\left(\frac{13\pi}{36}\right)\cos\left(\frac{\pi}{9}\right) + \sin\left(\frac{13\pi}{36}\right)\sin\left(\frac{\pi}{9}\right) & .10 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 \end{bmatrix}, \begin{bmatrix} \div \\ \div(\\ \left[\begin{array}{c} P \\ V \\ S \\ S \end{array} \right] \\ \& \\ \left[\begin{array}{c} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{array} \right] \\ \div \\ \div(\\ \div \\ \div(\end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{4}{9} \right), Cond2 = \left(\sin(\beta) = \frac{-5}{8} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{\pi}{2}, B = \pi, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{2} \right), Cond2 = \left(\cos(\beta) = \frac{2}{3} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha - \beta) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(74^\circ) = 0.276), Question = \cos(37^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(32^\circ) = 0.848), Question = \sin(16^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos\left(\frac{5\pi}{12}\right) & .2 = \sin(105^\circ) \\ .3 = \tan(15^\circ) & .4 = \sin((-345)^\circ) \\ .5 = \cos\left(\frac{23\pi}{12}\right) & .6 = \sec(195^\circ) \\ .7 = \csc\left(-\frac{19\pi}{12}\right) & .8 = \tan\left(\frac{19\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 2 \sin\left(\frac{\pi}{8}\right) \cos\left(\frac{\pi}{8}\right) & .2 = \sin(18^\circ) \cos(12^\circ) + \cos(18^\circ) \sin(12^\circ) \\ .3 = 2 \cos\left(\frac{\pi}{12}\right)^2 - 1 & .4 = \frac{\tan(25^\circ) + \tan(20^\circ)}{1 - \tan(25^\circ) \tan(20^\circ)} \\ .5 = \frac{\tan\left(\frac{7\pi}{36}\right) - \tan\left(\frac{\pi}{36}\right)}{1 + \tan\left(\frac{7\pi}{36}\right) \tan\left(\frac{\pi}{36}\right)} & .6 = \cos\left(\frac{\pi}{18}\right) \cos\left(\frac{5\pi}{18}\right) - \sin\left(\frac{\pi}{18}\right) \sin\left(\frac{5\pi}{18}\right) \\ .7 = \cos(72^\circ) \cos(12^\circ) + \sin(72^\circ) \sin(12^\circ) & .8 = \frac{2 \tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} \\ .9 = 1 - 2 \sin(22.5^\circ)^2 & .10 = \cos(15^\circ)^2 - \sin(15^\circ)^2 \end{bmatrix}, \begin{bmatrix} \vdots \\ \vdots \\ P \\ V \\ S \\ S \\ \& \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ \vdots \\ \vdots \\ \vdots \\ \vdots \end{bmatrix}$$

$$No3 = \begin{bmatrix} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{2}{3} \right), Cond2 = \left(\sin(\beta) = \frac{-3}{5} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \right] \end{bmatrix}, No4 = \begin{bmatrix} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{-3}{4} \right), Cond2 = \left(\sin(\beta) = \frac{5}{9} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{bmatrix} \right] \end{bmatrix}$$

$$No5 = [Cond = (\cos(76^\circ) = 0.242), Question = \sin(38^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(18^\circ) = 0.951), Question = \cos(9^\circ)], \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \sin(75^\circ) & .2 = \cos\left(\frac{\pi}{12}\right) \\ .3 = \tan\left(\frac{7\pi}{12}\right) & .4 = \cot((-255)^\circ) \\ .5 = \sec\left(-\frac{13\pi}{12}\right) & .6 = \csc(195^\circ) \\ .7 = \cos\left(\frac{19\pi}{12}\right) & .8 = \sin\left(\frac{11\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \cos^2\left(\frac{\pi}{12}\right) - \sin^2\left(\frac{\pi}{12}\right) & .2 = \frac{\tan(80^\circ) - \tan(20^\circ)}{1 + \tan(80^\circ)\tan(20^\circ)} \\ .3 = 2\sin(15^\circ)\cos(15^\circ) & .4 = 2\cos^2\left(\frac{\pi}{8}\right) - 1 \\ .5 = 1 - 2\sin^2(22.5^\circ) & .6 = \sin(33^\circ)\cos(12^\circ) + \cos(33^\circ)\sin(12^\circ) \\ .7 = \cos\left(\frac{\pi}{12}\right)\cos\left(\frac{5\pi}{12}\right) - \sin\left(\frac{\pi}{12}\right)\sin\left(\frac{5\pi}{12}\right) & .8 = \sin(35^\circ)\cos(5^\circ) - \cos(35^\circ)\sin(5^\circ) \\ .9 = \frac{\tan\left(\frac{5\pi}{36}\right) + \tan\left(\frac{\pi}{36}\right)}{1 - \tan\left(\frac{5\pi}{36}\right)\tan\left(\frac{\pi}{36}\right)} & .10 = \frac{2\tan(15^\circ)}{1 - \tan^2(15^\circ)} \end{bmatrix}, \begin{bmatrix} \div \\ \div \\ \left[\begin{matrix} P \\ V \\ S \\ S \end{matrix} \right] \\ \& \\ \left[\begin{matrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{matrix} \right] \\ \div \\ \div \\ \div \\ \div \end{bmatrix}$$

$$No3 = \begin{bmatrix} \begin{bmatrix} A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \end{bmatrix} \\ \begin{bmatrix} Cond1 = \left(\cos(\alpha) = \frac{5}{6} \right), Cond2 = \left(\sin(\beta) = \frac{-1}{3} \right) \end{bmatrix} \\ \begin{bmatrix} \begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \end{bmatrix}, \quad No4 = \begin{bmatrix} \begin{bmatrix} A = \frac{\pi}{2}, B = \pi, C = \pi, D = \frac{3\pi}{2} \end{bmatrix} \\ \begin{bmatrix} Cond1 = \left(\cos(\alpha) = \frac{-5}{8} \right), Cond2 = \left(\sin(\beta) = \frac{-4}{7} \right) \end{bmatrix} \\ \begin{bmatrix} \begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{bmatrix} \end{bmatrix}$$

$$No5 = [Cond = (\cos(78^\circ) = 0.208), Question = \sin(39^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(56^\circ) = 0.559), Question = \cos(28^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$NoI = \begin{bmatrix} .1 = \sin(75^\circ) & .2 = \cos\left(\frac{\pi}{12}\right) \\ .3 = \tan\left(\frac{7\pi}{12}\right) & .4 = \tan((-105)^\circ) \\ .5 = \csc\left(\frac{17\pi}{12}\right) & .6 = \sin\left(-\frac{19\pi}{12}\right) \\ .7 = \sec((-75)^\circ) & .8 = \cot\left(-\frac{17\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \frac{\tan\left(\frac{5\pi}{36}\right) + \tan\left(\frac{7\pi}{36}\right)}{1 - \tan\left(\frac{5\pi}{36}\right)\tan\left(\frac{7\pi}{36}\right)} & .2 = \frac{\tan(60^\circ) - \tan(15^\circ)}{1 + \tan(60^\circ)\tan(15^\circ)} \\ .3 = 2\cos^2\left(\frac{\pi}{8}\right) - 1 & .4 = \sin(10^\circ)\cos(35^\circ) + \cos(10^\circ)\sin(35^\circ) \\ .5 = 1 - 2\sin^2(22.5^\circ) & .6 = \cos\left(\frac{5\pi}{9}\right)\cos\left(\frac{\pi}{18}\right) + \sin\left(\frac{5\pi}{9}\right)\sin\left(\frac{\pi}{18}\right) \\ .7 = 2\sin\left(\frac{\pi}{12}\right)\cos\left(\frac{\pi}{12}\right) & .8 = \cos\left(\frac{\pi}{18}\right)\cos\left(\frac{\pi}{9}\right) - \sin\left(\frac{\pi}{18}\right)\sin\left(\frac{\pi}{9}\right) \\ .9 = \cos^2(15^\circ) - \sin^2(15^\circ) & .10 = \frac{2\tan(22.5^\circ)}{1 - \tan^2(22.5^\circ)} \end{bmatrix}, \begin{bmatrix} \vdots \\ \vdots \\ P \\ V \\ S \\ S \\ & \& \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ \vdots \\ \vdots \\ \vdots \\ \vdots \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{4} \right), Cond2 = \left(\cos(\beta) = \frac{2}{3} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{\pi}{2}, B = \pi, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{-5}{8} \right), Cond2 = \left(\sin(\beta) = \frac{-1}{2} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(68^\circ) = 0.375), Question = \sin(34^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\text{Cos}(28^\circ) = 0.883), Question = \text{Cos}(14^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos(105^\circ) & .2 = \sin\left(\frac{\pi}{12}\right) \\ .3 = \tan\left(\frac{5\pi}{12}\right) & .4 = \cos((-105)^\circ) \\ .5 = \sec\left(-\frac{13\pi}{12}\right) & .6 = \cot\left(\frac{11\pi}{12}\right) \\ .7 = \csc(345^\circ) & .8 = \tan\left(-\frac{5\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 1 - 2 \sin\left(\frac{\pi}{8}\right)^2 & .2 = \frac{\tan(40^\circ) + \tan(20^\circ)}{1 - \tan(40^\circ) \tan(20^\circ)} \\ .3 = 2 \cos(15^\circ)^2 - 1 & .4 = \frac{\tan(80^\circ) - \tan(20^\circ)}{1 + \tan(80^\circ) \tan(20^\circ)} \\ .5 = \sin(20^\circ) \cos(10^\circ) + \cos(20^\circ) \sin(10^\circ) & .6 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 \\ .7 = \sin\left(\frac{7\pi}{30}\right) \cos\left(\frac{\pi}{15}\right) - \cos\left(\frac{7\pi}{30}\right) \sin\left(\frac{\pi}{15}\right) & .8 = \cos\left(\frac{\pi}{9}\right) \cos\left(\frac{5\pi}{36}\right) - \sin\left(\frac{\pi}{9}\right) \sin\left(\frac{5\pi}{36}\right) \\ .9 = 2 \sin(22.5^\circ) \cos(22.5^\circ) & .10 = \frac{2 \tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} \end{bmatrix}, \begin{bmatrix} \frac{.}{.} \\ \left[\begin{bmatrix} P \\ V \\ S \\ S \end{bmatrix} \right] \\ \& \\ \left[\begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix} \right] \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{2}{7} \right), Cond2 = \left(\sin(\beta) = \frac{3}{5} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha + \beta) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{3\pi}{2}, B = 2\pi, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{5}{8} \right), Cond2 = \left(\sin(\beta) = \frac{-5}{7} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(50^\circ) = 0.643), Question = \cos(25^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(86^\circ) = 0.070), Question = \sin(43^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \sin\left(\frac{5\pi}{12}\right) & .2 = \cos(15^\circ) \\ .3 = \tan(105^\circ) & .4 = \sec((-345^\circ)) \\ .5 = \csc\left(-\frac{13\pi}{12}\right) & .6 = \sin(195^\circ) \\ .7 = \cot\left(\frac{19\pi}{12}\right) & .8 = \tan((-105^\circ)) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \frac{2 \tan\left(\frac{\pi}{12}\right)}{1 - \tan\left(\frac{\pi}{12}\right)^2} & .2 = 1 - 2 \sin\left(\frac{\pi}{8}\right)^2 \\ .3 = \sin(40^\circ) \cos(10^\circ) - \cos(40^\circ) \sin(10^\circ) & .4 = \cos(15^\circ)^2 - \sin(15^\circ)^2 \\ .5 = \cos(70^\circ) \cos(10^\circ) + \sin(70^\circ) \sin(10^\circ) & .6 = 2 \cos(22.5^\circ)^2 - 1 \\ .7 = \sin\left(\frac{\pi}{12}\right) \cos\left(\frac{5\pi}{12}\right) + \cos\left(\frac{\pi}{12}\right) \sin\left(\frac{5\pi}{12}\right) & .8 = \frac{\tan\left(\frac{\pi}{9}\right) + \tan\left(\frac{\pi}{18}\right)}{1 - \tan\left(\frac{\pi}{9}\right) \tan\left(\frac{\pi}{18}\right)} \\ .9 = \frac{\tan\left(\frac{13\pi}{36}\right) - \tan\left(\frac{\pi}{9}\right)}{1 + \tan\left(\frac{13\pi}{36}\right) \tan\left(\frac{\pi}{9}\right)} & .10 = 2 \sin\left(\frac{\pi}{12}\right) \cos\left(\frac{\pi}{12}\right) \end{bmatrix}, \begin{bmatrix} \frac{1}{2} \\ \left[\begin{matrix} P \\ V \\ S \\ S \end{matrix} \right] \\ \& \\ \left[\begin{matrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{matrix} \right] \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{2} \right), Cond2 = \left(\cos(\beta) = \frac{-4}{9} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha + \beta) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{\pi}{2}, B = \pi, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{2} \right), Cond2 = \left(\cos(\beta) = \frac{1}{4} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(34^\circ) = 0.829), Question = \cos(17^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(74^\circ) = 0.276), Question = \sin(37^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \sin(105^\circ) & .2 = \cos\left(\frac{\pi}{12}\right) \\ .3 = \tan(75^\circ) & .4 = \cot(345^\circ) \\ .5 = \tan\left(\frac{13\pi}{12}\right) & .6 = \sec\left(-\frac{7\pi}{12}\right) \\ .7 = \csc((-345)^\circ) & .8 = \sin\left(-\frac{17\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \frac{2 \tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} & .2 = \cos\left(\frac{19\pi}{60}\right) \cos\left(\frac{\pi}{15}\right) + \sin\left(\frac{19\pi}{60}\right) \sin\left(\frac{\pi}{15}\right) \\ .3 = \frac{\tan(20^\circ) + \tan(10^\circ)}{1 - \tan(20^\circ) \tan(10^\circ)} & .4 = 2 \cos(22.5^\circ)^2 - 1 \\ .5 = \cos(35^\circ) \cos(10^\circ) - \sin(35^\circ) \sin(10^\circ) & .6 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 \\ .7 = \sin\left(\frac{\pi}{15}\right) \cos\left(\frac{4\pi}{15}\right) + \cos\left(\frac{\pi}{15}\right) \sin\left(\frac{4\pi}{15}\right) & .8 = 2 \sin(15^\circ) \cos(15^\circ) \\ .9 = 1 - 2 \sin\left(\frac{\pi}{8}\right)^2 & .10 = \frac{\tan(40^\circ) - \tan(10^\circ)}{1 + \tan(40^\circ) \tan(10^\circ)} \end{bmatrix}, \begin{bmatrix} \frac{)}{)} \\ \frac{)}{(}{)} \\ \frac{)}{(}{)} \\ P \\ V \\ S \\ S \\ \& \\ \frac{)}{(}{)} \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ \frac{)}{)} \\ \frac{)}{(}{)} \\ \frac{)}{)} \\ \frac{)}{(}{)} \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{6} \right), Cond2 = \left(\cos(\beta) = \frac{-3}{4} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-2}{5} \right), Cond2 = \left(\cos(\beta) = \frac{3}{5} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(50^\circ) = 0.643), Question = \cos(25^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(26^\circ) = 0.899), Question = \sin(13^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos\left(\frac{\pi}{12}\right) & .2 = \sin(75^\circ) \\ .3 = \tan\left(\frac{7\pi}{12}\right) & .4 = \cos((-165)^\circ) \\ .5 = \csc\left(\frac{19\pi}{12}\right) & .6 = \sin(345^\circ) \\ .7 = \cot\left(-\frac{5\pi}{12}\right) & .8 = \sec(165^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 2 \cos\left(\frac{\pi}{8}\right)^2 - 1 & .2 = \frac{\tan(35^\circ) + \tan(25^\circ)}{1 - \tan(35^\circ) \tan(25^\circ)} \\ .3 = \frac{2 \tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} & .4 = 2 \sin(22.5^\circ) \cos(22.5^\circ) \\ .5 = \sin\left(\frac{11\pi}{36}\right) \cos\left(\frac{\pi}{18}\right) - \cos\left(\frac{11\pi}{36}\right) \sin\left(\frac{\pi}{18}\right) & .6 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 \\ .7 = \sin\left(\frac{\pi}{15}\right) \cos\left(\frac{11\pi}{60}\right) + \cos\left(\frac{\pi}{15}\right) \sin\left(\frac{11\pi}{60}\right) & .8 = \frac{\tan\left(\frac{7\pi}{30}\right) - \tan\left(\frac{\pi}{15}\right)}{1 + \tan\left(\frac{7\pi}{30}\right) \tan\left(\frac{\pi}{15}\right)} \\ .9 = \cos(100^\circ) \cos(10^\circ) + \sin(100^\circ) \sin(10^\circ) & .10 = 1 - 2 \sin(15^\circ)^2 \end{bmatrix}, \begin{bmatrix} \div \\ \div(\\ \left[\begin{array}{c} P \\ V \\ S \\ S \end{array} \right] \\ \& \\ \left[\begin{array}{c} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{array} \right] \\ \div \\ \div(\\ \div \\ \div(\end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{2} \right), Cond2 = \left(\cos(\beta) = \frac{-3}{7} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{3\pi}{2}, B = 2\pi, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{2}{7} \right), Cond2 = \left(\sin(\beta) = \frac{1}{3} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(78^\circ) = 0.208), Question = \sin(39^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(38^\circ) = 0.788), Question = \cos(19^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos(15^\circ) & .2 = \sin\left(\frac{5\pi}{12}\right) \\ .3 = \tan(105^\circ) & .4 = \csc((-285^\circ)) \\ .5 = \sin\left(\frac{19\pi}{12}\right) & .6 = \cot\left(-\frac{17\pi}{12}\right) \\ .7 = \tan(195^\circ) & .8 = \sec\left(-\frac{5\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 2 \cos\left(\frac{\pi}{8}\right)^2 - 1 & .2 = \cos(30^\circ) \cos(15^\circ) - \sin(30^\circ) \sin(15^\circ) \\ .3 = \frac{\tan(50^\circ) - \tan(20^\circ)}{1 + \tan(50^\circ) \tan(20^\circ)} & .4 = 2 \sin\left(\frac{\pi}{12}\right) \cos\left(\frac{\pi}{12}\right) \\ .5 = \frac{\tan\left(\frac{\pi}{9}\right) + \tan\left(\frac{2\pi}{9}\right)}{1 - \tan\left(\frac{\pi}{9}\right) \tan\left(\frac{2\pi}{9}\right)} & .6 = 1 - 2 \sin(15^\circ)^2 \\ .7 = \sin(60^\circ) \cos(15^\circ) - \cos(60^\circ) \sin(15^\circ) & .8 = \cos(22.5^\circ)^2 - \sin(22.5^\circ)^2 \\ .9 = \cos\left(\frac{17\pi}{36}\right) \cos\left(\frac{5\pi}{36}\right) + \sin\left(\frac{17\pi}{36}\right) \sin\left(\frac{5\pi}{36}\right) & .10 = \frac{2 \tan\left(\frac{\pi}{12}\right)}{1 - \tan\left(\frac{\pi}{12}\right)^2} \end{bmatrix}, \begin{bmatrix} \div \\ (\\ \left[\begin{array}{c} P \\ V \\ S \\ S \end{array} \right] \\ \& \\ \left[\begin{array}{c} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{array} \right] \\ \div \\ (\\ \div \\ (\\ \div \\ (\end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{3}{4} \right), Cond2 = \left(\sin(\beta) = \frac{-3}{8} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{3\pi}{2}, B = 2\pi, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-5}{7} \right), Cond2 = \left(\cos(\beta) = \frac{-1}{3} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(56^\circ) = 0.559), Question = \cos(28^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(14^\circ) = 0.970), Question = \sin(7^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \sin\left(\frac{5\pi}{12}\right) & .2 = \cos(105^\circ) \\ .3 = \tan\left(\frac{\pi}{12}\right) & .4 = \cot((-255)^\circ) \\ .5 = \tan\left(\frac{11\pi}{12}\right) & .6 = \csc(195^\circ) \\ .7 = \cos\left(-\frac{\pi}{12}\right) & .8 = \sec((-345)^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 1 - 2 \sin\left(\frac{\pi}{8}\right)^2 & .2 = \sin\left(\frac{\pi}{15}\right) \cos\left(\frac{13\pi}{30}\right) + \cos\left(\frac{\pi}{15}\right) \sin\left(\frac{13\pi}{30}\right) \\ .3 = \cos\left(\frac{2\pi}{9}\right) \cos\left(\frac{\pi}{18}\right) + \sin\left(\frac{2\pi}{9}\right) \sin\left(\frac{\pi}{18}\right) & .4 = \frac{\tan(57^\circ) - \tan(12^\circ)}{1 + \tan(57^\circ) \tan(12^\circ)} \\ .5 = 2 \cos(15^\circ)^2 - 1 & .6 = \frac{2 \tan\left(\frac{\pi}{8}\right)}{1 - \tan\left(\frac{\pi}{8}\right)^2} \\ .7 = \sin(105^\circ) \cos(15^\circ) - \cos(105^\circ) \sin(15^\circ) & .8 = \cos(48^\circ) \cos(12^\circ) - \sin(48^\circ) \sin(12^\circ) \\ .9 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 & .10 = 2 \sin(22.5^\circ) \cos(22.5^\circ) \end{bmatrix}, \begin{bmatrix} \frac{\cdot}{\cdot} \\ \cdot: (\\ \left[\begin{bmatrix} P \\ V \\ S \\ S \end{bmatrix} \right] \\ \& \\ \left[\begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix} \right] \\ \frac{\cdot}{\cdot} \\ \cdot: (\\ \frac{\cdot}{\cdot} \\ \cdot: (\end{bmatrix}$$

$$No3 = \begin{bmatrix} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{2} \right), Cond2 = \left(\cos(\beta) = \frac{2}{3} \right) \right] \\ \left[\begin{bmatrix} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{bmatrix} \right] \end{bmatrix}, No4 = \begin{bmatrix} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{-1}{2} \right), Cond2 = \left(\sin(\beta) = \frac{5}{6} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha - \beta) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \right] \end{bmatrix}$$

$$No5 = [Cond = (\cos(82^\circ) = 0.139), Question = \cos(41^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(50^\circ) = 0.643), Question = \sin(25^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos\left(\frac{5\pi}{12}\right) & .2 = \sin(15^\circ) \\ .3 = \tan\left(\frac{7\pi}{12}\right) & .4 = \cos((-165)^\circ) \\ .5 = \sec\left(-\frac{19\pi}{12}\right) & .6 = \tan((-195)^\circ) \\ .7 = \cot\left(\frac{23\pi}{12}\right) & .8 = \sin((-75)^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \frac{\tan\left(\frac{11\pi}{36}\right) - \tan\left(\frac{\pi}{18}\right)}{1 + \tan\left(\frac{11\pi}{36}\right)\tan\left(\frac{\pi}{18}\right)} & .2 = \sin\left(\frac{5\pi}{36}\right)\cos\left(\frac{\pi}{9}\right) + \cos\left(\frac{5\pi}{36}\right)\sin\left(\frac{\pi}{9}\right) \\ .3 = 1 - 2\sin(15^\circ)^2 & .4 = \frac{\tan(40^\circ) + \tan(20^\circ)}{1 - \tan(40^\circ)\tan(20^\circ)} \\ .5 = 2\sin\left(\frac{\pi}{8}\right)\cos\left(\frac{\pi}{8}\right) & .6 = \sin\left(\frac{5\pi}{9}\right)\cos\left(\frac{\pi}{18}\right) - \cos\left(\frac{5\pi}{9}\right)\sin\left(\frac{\pi}{18}\right) \\ .7 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 & .8 = \cos(72^\circ)\cos(12^\circ) + \sin(72^\circ)\sin(12^\circ) \\ .9 = \frac{2\tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} & .10 = 2\cos(22.5^\circ)^2 - 1 \end{bmatrix}, \begin{bmatrix} :) \\ :(\\ \left[\begin{matrix} P \\ V \\ S \\ S \end{matrix} \right] \\ \& \\ \left[\begin{matrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{matrix} \right] \\ :) \\ :(\\ :) \\ :(\end{bmatrix}$$

$$No3 = \begin{bmatrix} \begin{bmatrix} A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \end{bmatrix} \\ \begin{bmatrix} Cond1 = \left(\sin(\alpha) = \frac{1}{2} \right), Cond2 = \left(\cos(\beta) = \frac{-1}{4} \right) \end{bmatrix} \\ \begin{bmatrix} \begin{bmatrix} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{bmatrix} \end{bmatrix}, \quad No4 = \begin{bmatrix} \begin{bmatrix} A = \pi, B = \frac{3\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \end{bmatrix} \\ \begin{bmatrix} Cond1 = \left(\sin(\alpha) = \frac{-2}{5} \right), Cond2 = \left(\cos(\beta) = \frac{2}{7} \right) \end{bmatrix} \\ \begin{bmatrix} \begin{bmatrix} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \end{bmatrix}$$

$$No5 = [Cond = (\cos(42^\circ) = 0.743), Question = \sin(21^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(86^\circ) = 0.070), Question = \cos(43^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$NoI = \begin{bmatrix} .1 = \sin(105^\circ) & .2 = \cos\left(\frac{5\pi}{12}\right) \\ .3 = \tan(15^\circ) & .4 = \cot((-285^\circ)) \\ .5 = \tan\left(-\frac{\pi}{12}\right) & .6 = \sec(255^\circ) \\ .7 = \sin\left(-\frac{17\pi}{12}\right) & .8 = \csc\left(\frac{19\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \frac{\tan(55^\circ) - \tan(10^\circ)}{1 + \tan(55^\circ)\tan(10^\circ)} & .2 = \cos\left(\frac{11\pi}{18}\right)\cos\left(\frac{\pi}{9}\right) + \sin\left(\frac{11\pi}{18}\right)\sin\left(\frac{\pi}{9}\right) \\ .3 = 1 - 2\sin\left(\frac{\pi}{8}\right)^2 & .4 = 2\cos(22.5^\circ)^2 - 1 \\ .5 = \frac{2\tan\left(\frac{\pi}{12}\right)}{1 - \tan\left(\frac{\pi}{12}\right)^2} & .6 = \cos(18^\circ)\cos(12^\circ) - \sin(18^\circ)\sin(12^\circ) \\ .7 = \frac{\tan(33^\circ) + \tan(12^\circ)}{1 - \tan(33^\circ)\tan(12^\circ)} & .8 = \sin\left(\frac{5\pi}{36}\right)\cos\left(\frac{7\pi}{36}\right) + \cos\left(\frac{5\pi}{36}\right)\sin\left(\frac{7\pi}{36}\right) \\ .9 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 & .10 = 2\sin(15^\circ)\cos(15^\circ) \end{bmatrix}, \begin{bmatrix} \frac{:}{:} \\ \frac{:}{:} \\ \left[\begin{matrix} P \\ V \\ S \\ S \end{matrix} \right] \\ \& \\ \left[\begin{matrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{matrix} \right] \\ \frac{:}{:} \\ \frac{:}{:} \\ \frac{:}{:} \end{bmatrix}$$

$$No3 = \begin{bmatrix} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{5}{9} \right), Cond2 = \left(\sin(\beta) = \frac{-1}{3} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \right] \end{bmatrix}, No4 = \begin{bmatrix} \left[A = \frac{\pi}{2}, B = \pi, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{5} \right), Cond2 = \left(\cos(\beta) = \frac{-2}{3} \right) \right] \\ \left[\begin{bmatrix} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{bmatrix} \right] \end{bmatrix}$$

$$No5 = [Cond = (\cos(22^\circ) = 0.927), Question = \cos(11^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\text{Cos}(80^\circ) = 0.174), Question = \text{Sin}(40^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

[illegible]

$$No1 = \begin{bmatrix} .1 = \cos\left(\frac{7\pi}{12}\right) & .2 = \sin(75^\circ) \\ .3 = \tan(15^\circ) & .4 = \csc((-255^\circ)) \\ .5 = \sec\left(-\frac{7\pi}{12}\right) & .6 = \cot\left(\frac{13\pi}{12}\right) \\ .7 = \cos(165^\circ) & .8 = \tan((-195^\circ)) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 2 \sin(22.5^\circ) \cos(22.5^\circ) & .2 = 2 \cos\left(\frac{\pi}{8}\right)^2 - 1 \\ .3 = \frac{\tan\left(\frac{7\pi}{36}\right) - \tan\left(\frac{\pi}{36}\right)}{1 + \tan\left(\frac{7\pi}{36}\right) \tan\left(\frac{\pi}{36}\right)} & .4 = 1 - 2 \sin\left(\frac{\pi}{12}\right)^2 \\ .5 = \sin\left(\frac{5\pi}{36}\right) \cos\left(\frac{\pi}{9}\right) + \cos\left(\frac{5\pi}{36}\right) \sin\left(\frac{\pi}{9}\right) & .6 = \sin(55^\circ) \cos(10^\circ) - \cos(55^\circ) \sin(10^\circ) \\ .7 = \cos(15^\circ)^2 - \sin(15^\circ)^2 & .8 = \cos(10^\circ) \cos(50^\circ) - \sin(10^\circ) \sin(50^\circ) \\ .9 = \frac{\tan\left(\frac{5\pi}{36}\right) + \tan\left(\frac{\pi}{36}\right)}{1 - \tan\left(\frac{5\pi}{36}\right) \tan\left(\frac{\pi}{36}\right)} & .10 = \frac{2 \tan\left(\frac{\pi}{8}\right)}{1 - \tan\left(\frac{\pi}{8}\right)^2} \end{bmatrix}, \begin{bmatrix} \frac{.}{.} \\ \frac{.}{.} \\ P \\ V \\ S \\ S \\ \& \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \end{bmatrix}$$

$$No3 = \begin{bmatrix} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{1}{2} \right), Cond2 = \left(\sin(\beta) = \frac{-2}{3} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \right] \end{bmatrix}, No4 = \begin{bmatrix} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-1}{3} \right), Cond2 = \left(\cos(\beta) = \frac{-1}{2} \right) \right] \\ \left[\begin{bmatrix} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha - \beta) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \right] \end{bmatrix}$$

$$No5 = [Cond = (\cos(74^\circ) = 0.276), Question = \sin(37^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\text{Cos}(40^\circ) = 0.766), Question = \text{Cos}(20^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos(105^\circ) & .2 = \sin\left(\frac{\pi}{12}\right) \\ .3 = \tan\left(\frac{5\pi}{12}\right) & .4 = \sec((-165)^\circ) \\ .5 = \sin\left(-\frac{7\pi}{12}\right) & .6 = \csc((-285)^\circ) \\ .7 = \cot\left(-\frac{13\pi}{12}\right) & .8 = \tan\left(-\frac{\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \cos(110^\circ) \cos(20^\circ) + \sin(110^\circ) \sin(20^\circ) & .2 = \cos\left(\frac{\pi}{18}\right) \cos\left(\frac{4\pi}{9}\right) - \sin\left(\frac{\pi}{18}\right) \sin\left(\frac{4\pi}{9}\right) \\ .3 = \sin(40^\circ) \cos(10^\circ) - \cos(40^\circ) \sin(10^\circ) & .4 = 2 \cos(22.5^\circ)^2 - 1 \\ .5 = \frac{\tan\left(\frac{\pi}{9}\right) + \tan\left(\frac{5\pi}{36}\right)}{1 - \tan\left(\frac{\pi}{9}\right) \tan\left(\frac{5\pi}{36}\right)} & .6 = \sin(50^\circ) \cos(10^\circ) + \cos(50^\circ) \sin(10^\circ) \\ .7 = 2 \sin(15^\circ) \cos(15^\circ) & .8 = 1 - 2 \sin\left(\frac{\pi}{8}\right)^2 \\ .9 = \frac{2 \tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} & .10 = \cos\left(\frac{\pi}{12}\right)^2 - \sin\left(\frac{\pi}{12}\right)^2 \end{bmatrix}, \begin{bmatrix} \therefore \\ \therefore (\\ \left[\begin{array}{c} P \\ V \\ S \\ S \end{array} \right] \\ \& \\ \left[\begin{array}{c} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{array} \right] \\ \therefore \\ \therefore (\\ \therefore \\ \therefore (\end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{3}{5} \right), Cond2 = \left(\sin(\beta) = \frac{3}{7} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha + \beta) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{3\pi}{2}, B = 2\pi, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-1}{3} \right), Cond2 = \left(\cos(\beta) = \frac{-2}{5} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(78^\circ) = 0.208), Question = \sin(39^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(50^\circ) = 0.643), Question = \cos(25^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos\left(\frac{\pi}{12}\right) & .2 = \sin(75^\circ) \\ .3 = \tan\left(\frac{7\pi}{12}\right) & .4 = \sin(285^\circ) \\ .5 = \csc\left(-\frac{5\pi}{12}\right) & .6 = \tan\left(\frac{17\pi}{12}\right) \\ .7 = \sec(165^\circ) & .8 = \cot\left(\frac{23\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = 2 \sin\left(\frac{\pi}{12}\right) \cos\left(\frac{\pi}{12}\right) & .2 = \cos(15^\circ)^2 - \sin(15^\circ)^2 \\ .3 = \cos(80^\circ) \cos(10^\circ) - \sin(80^\circ) \sin(10^\circ) & .4 = \frac{\tan\left(\frac{2\pi}{5}\right) - \tan\left(\frac{\pi}{15}\right)}{1 + \tan\left(\frac{2\pi}{5}\right) \tan\left(\frac{\pi}{15}\right)} \\ .5 = \frac{\tan\left(\frac{4\pi}{15}\right) + \tan\left(\frac{\pi}{15}\right)}{1 - \tan\left(\frac{4\pi}{15}\right) \tan\left(\frac{\pi}{15}\right)} & .6 = \frac{2 \tan\left(\frac{\pi}{8}\right)}{1 - \tan\left(\frac{\pi}{8}\right)^2} \\ .7 = \sin(65^\circ) \cos(20^\circ) - \cos(65^\circ) \sin(20^\circ) & .8 = 1 - 2 \sin\left(\frac{\pi}{8}\right)^2 \\ .9 = \sin\left(\frac{\pi}{18}\right) \cos\left(\frac{\pi}{9}\right) + \cos\left(\frac{\pi}{18}\right) \sin\left(\frac{\pi}{9}\right) & .10 = 2 \cos(22.5^\circ)^2 - 1 \end{bmatrix}, \begin{bmatrix} \therefore \\ \therefore (\\ \left[\begin{array}{c} P \\ V \\ S \\ S \end{array} \right] \\ \& \\ \left[\begin{array}{c} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{array} \right] \\ \therefore \\ \therefore (\\ \therefore \\ \therefore (\end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{3} \right), Cond2 = \left(\cos(\beta) = \frac{-5}{7} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha + \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha - \beta) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \frac{3\pi}{2}, B = 2\pi, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-1}{6} \right), Cond2 = \left(\cos(\beta) = \frac{-3}{7} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\text{Cos}(32^\circ) = 0.848), Question = \text{Cos}(16^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(56^\circ) = 0.559), Question = \sin(28^\circ)], \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{2}{5} \right), Cond2 = \left(\cos(\beta) = \frac{-1}{2} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{-2}{3} \right), Cond2 = \left(\sin(\beta) = \frac{-2}{5} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha - \beta) & .6 = \tan(\alpha + \beta) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No6 = [Cond = (\cos(70^\circ) = 0.342), Question = \sin(35^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \cos(105^\circ) & .2 = \sin\left(\frac{\pi}{12}\right) \\ .3 = \tan\left(\frac{5\pi}{12}\right) & .4 = \sec\left(\frac{17\pi}{12}\right) \\ .5 = \cos((-195)^\circ) & .6 = \tan\left(-\frac{7\pi}{12}\right) \\ .7 = \cot((-75)^\circ) & .8 = \sin\left(-\frac{23\pi}{12}\right) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \frac{2 \tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} & .2 = \cos(65^\circ) \cos(20^\circ) + \sin(65^\circ) \sin(20^\circ) \\ .3 = \cos(15^\circ)^2 - \sin(15^\circ)^2 & .4 = \frac{\tan\left(\frac{2\pi}{9}\right) - \tan\left(\frac{\pi}{18}\right)}{1 + \tan\left(\frac{2\pi}{9}\right) \tan\left(\frac{\pi}{18}\right)} \\ .5 = 1 - 2 \sin\left(\frac{\pi}{12}\right)^2 & .6 = 2 \sin(22.5^\circ) \cos(22.5^\circ) \\ .7 = \sin\left(\frac{5\pi}{36}\right) \cos\left(\frac{\pi}{9}\right) + \cos\left(\frac{5\pi}{36}\right) \sin\left(\frac{\pi}{9}\right) & .8 = \frac{\tan\left(\frac{5\pi}{36}\right) + \tan\left(\frac{\pi}{36}\right)}{1 - \tan\left(\frac{5\pi}{36}\right) \tan\left(\frac{\pi}{36}\right)} \\ .9 = 2 \cos\left(\frac{\pi}{8}\right)^2 - 1 & .10 = \sin(105^\circ) \cos(15^\circ) - \cos(105^\circ) \sin(15^\circ) \end{bmatrix}, \begin{bmatrix} \frac{.}{.} \\ \left[\begin{bmatrix} P \\ V \\ S \\ S \end{bmatrix} \right] \\ \& \\ \left[\begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix} \right] \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \\ \frac{.}{.} \end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{5}{6} \right), Cond2 = \left(\sin(\beta) = \frac{-2}{5} \right) \right] \\ \left[\begin{array}{cc} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\beta - \alpha) & .6 = \tan(\alpha + \beta) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-5}{7} \right), Cond2 = \left(\cos(\beta) = \frac{-2}{5} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\alpha) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(16^\circ) = 0.961), Question = \cos(8^\circ)], \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(76^\circ) = 0.242), Question = \sin(38^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \sin(75^\circ) & .2 = \cos\left(\frac{7\pi}{12}\right) \\ .3 = \tan(15^\circ) & .4 = \csc(345^\circ) \\ .5 = \cos\left(-\frac{17\pi}{12}\right) & .6 = \sin((-165)^\circ) \\ .7 = \cot\left(-\frac{\pi}{12}\right) & .8 = \sec(165^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \cos(15^\circ)^2 - \sin(15^\circ)^2 & .2 = \sin\left(\frac{17\pi}{30}\right)\cos\left(\frac{\pi}{15}\right) - \cos\left(\frac{17\pi}{30}\right)\sin\left(\frac{\pi}{15}\right) \\ .3 = \cos\left(\frac{4\pi}{15}\right)\cos\left(\frac{\pi}{15}\right) - \sin\left(\frac{4\pi}{15}\right)\sin\left(\frac{\pi}{15}\right) & .4 = 1 - 2\sin(22.5^\circ)^2 \\ .5 = \frac{\tan(20^\circ) + \tan(10^\circ)}{1 - \tan(20^\circ)\tan(10^\circ)} & .6 = \cos(55^\circ)\cos(10^\circ) + \sin(55^\circ)\sin(10^\circ) \\ .7 = 2\sin\left(\frac{\pi}{12}\right)\cos\left(\frac{\pi}{12}\right) & .8 = \frac{2\tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} \\ .9 = 2\cos\left(\frac{\pi}{8}\right)^2 - 1 & .10 = \sin(33^\circ)\cos(12^\circ) + \cos(33^\circ)\sin(12^\circ) \end{bmatrix}, \begin{bmatrix} \frac{:) }{P} \\ \frac{:) }{V} \\ \frac{:) }{S} \\ \frac{:) }{S} \\ \& \\ \frac{:) }{M} \\ \frac{:) }{a} \\ \frac{:) }{t} \\ \frac{:) }{h} \\ \frac{:) }{@} \\ \frac{:) }{M} \\ \frac{:) }{U} \\ \frac{:) }{T} \end{bmatrix}$$

$$No3 = \begin{bmatrix} \left[A = 0, B = \frac{\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\cos(\alpha) = \frac{3}{8} \right), Cond2 = \left(\sin(\beta) = \frac{-1}{2} \right) \right] \\ \left[\begin{bmatrix} .1 = \sin(\alpha) & .2 = \cos(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\beta - \alpha) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\alpha - \beta) \\ .7 = \cos(2\alpha) & .8 = \tan(2\beta) \end{bmatrix} \right] \end{bmatrix}, No4 = \begin{bmatrix} \left[A = \frac{\pi}{2}, B = \pi, C = \pi, D = \frac{3\pi}{2} \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{2}{3} \right), Cond2 = \left(\cos(\beta) = \frac{-4}{5} \right) \right] \\ \left[\begin{bmatrix} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{bmatrix} \right] \end{bmatrix}$$

$$No5 = [Cond = (\cos(72^\circ) = 0.309), Question = \cos(36^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(24^\circ) = 0.914), Question = \sin(12^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No1 = \begin{bmatrix} .1 = \sin(105^\circ) & .2 = \cos\left(\frac{5\pi}{12}\right) \\ .3 = \tan(15^\circ) & .4 = \tan((-255)^\circ) \\ .5 = \sec\left(-\frac{\pi}{12}\right) & .6 = \sin\left(-\frac{19\pi}{12}\right) \\ .7 = \csc((-75)^\circ) & .8 = \cot(165^\circ) \end{bmatrix}, No2 = \begin{bmatrix} .1 = \sin\left(\frac{\pi}{15}\right)\cos\left(\frac{\pi}{10}\right) + \cos\left(\frac{\pi}{15}\right)\sin\left(\frac{\pi}{10}\right) & .2 = \frac{2\tan(22.5^\circ)}{1 - \tan(22.5^\circ)^2} \\ .3 = \sin\left(\frac{7\pi}{12}\right)\cos\left(\frac{\pi}{12}\right) - \cos\left(\frac{7\pi}{12}\right)\sin\left(\frac{\pi}{12}\right) & .4 = \cos(80^\circ)\cos(10^\circ) - \sin(80^\circ)\sin(10^\circ) \\ .5 = \cos\left(\frac{\pi}{8}\right)^2 - \sin\left(\frac{\pi}{8}\right)^2 & .6 = \frac{\tan\left(\frac{5\pi}{18}\right) - \tan\left(\frac{\pi}{9}\right)}{1 + \tan\left(\frac{5\pi}{18}\right)\tan\left(\frac{\pi}{9}\right)} \\ .7 = 2\cos\left(\frac{\pi}{12}\right) - 1 & .8 = 2\sin(15^\circ)\cos(15^\circ) \\ .9 = 1 - 2\sin(22.5^\circ)^2 & .10 = \cos(80^\circ)\cos(20^\circ) + \sin(80^\circ)\sin(20^\circ) \end{bmatrix}, \begin{bmatrix} \cdot / \\ : (\\ P \\ V \\ S \\ S \\ & \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ & \\ \cdot / \\ : (\\ \cdot / \\ : (\end{bmatrix}$$

$$No3 = \left[\begin{array}{c} \left[A = 0, B = \frac{\pi}{2}, C = \frac{\pi}{2}, D = \pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{1}{6} \right), Cond2 = \left(\cos(\beta) = \frac{-4}{7} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \sin(2\alpha) & .8 = \tan(2\beta) \end{array} \right] \end{array} \right], \quad No4 = \left[\begin{array}{c} \left[A = \pi, B = \frac{3\pi}{2}, C = \frac{3\pi}{2}, D = 2\pi \right] \\ \left[Cond1 = \left(\sin(\alpha) = \frac{-2}{3} \right), Cond2 = \left(\cos(\beta) = \frac{1}{5} \right) \right] \\ \left[\begin{array}{cc} .1 = \cos(\alpha) & .2 = \sin(\beta) \\ .3 = \tan(\beta) & .4 = \sin(\alpha - \beta) \\ .5 = \cos(\alpha + \beta) & .6 = \tan(\beta - \alpha) \\ .7 = \cos(2\beta) & .8 = \tan(2\alpha) \end{array} \right] \end{array} \right]$$

$$No5 = [Cond = (\cos(18^\circ) = 0.951), Question = \cos(9^\circ)], \quad , \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

$$No6 = [Cond = (\cos(84^\circ) = 0.105), Question = \sin(42^\circ)], \quad , \quad \begin{bmatrix} M \\ U \\ T \end{bmatrix}$$

