TrigonometryExercise3 Answers for No.9012

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{31\pi}{3} = 1860^{o}\right) \\ .2 = \left(\frac{\pi}{6} = 30^{o}\right) & .7 = \left(-\frac{61\pi}{6} = (\text{-}1830)^{o}\right) \\ .3 = \left(-\frac{\pi}{3} = (\text{-}60)^{o}\right) & .8 = \left(-\frac{13\pi}{4} = (\text{-}585)^{o}\right) \\ .4 = \left(-\frac{\pi}{4} = (\text{-}45)^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(\frac{19\pi}{2} = 1710^{o}\right) & .10 = (\text{-}6.5 = (\text{-}372.423)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(2760^{o} = \frac{46\pi}{3}\right) \\ .2 = \left((\text{-}225)^{o} = -\frac{5\pi}{4}\right) & .7 = \left((\text{-}2115)^{o} = -\frac{47\pi}{4}\right) \\ .3 = \left((\text{-}120)^{o} = -\frac{2\pi}{3}\right) & .8 = \left(2490^{o} = \frac{83\pi}{6}\right) \\ .4 = \left((\text{-}150)^{o} = -\frac{5\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = (720^{o} = 4\pi) & .10 = \left(\left(-\frac{810}{\pi}\right)^{o} = \text{-}4.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Csc}(\theta) = -\frac{2\sqrt{3}}{3}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\text{Sin}(\theta) = -\frac{2\sqrt{5}}{5}\right] \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Cos}(\theta) - \text{Cot}(\theta) = -\frac{15\sqrt{5}}{14}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = [\text{Tan}(\theta) - \text{Sec}(\theta) = -\sqrt{5}], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Sec}(\theta) + \text{Csc}(\theta) = \frac{\sqrt{5}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Cot}(\theta) + \text{Csc}(\theta) = -\frac{\sqrt{3}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9016

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{\circ}) & .6 = \left(-\frac{19\,\pi}{6} = (-570)^{\circ}\right) \\ .2 = \left(-\frac{5\,\pi}{6} = (-150)^{\circ}\right) & .7 = \left(-\frac{55\,\pi}{4} = (-2475)^{\circ}\right) \\ .3 = \left(-\frac{\pi}{4} = (-45)^{\circ}\right) & .8 = \left(\frac{14\,\pi}{3} = 840^{\circ}\right) \\ .4 = \left(\frac{\pi}{3} = 60^{\circ}\right) & .9 = (7 = 401.070^{\circ}) \\ .5 = \left(\frac{11\,\pi}{2} = 990^{\circ}\right) & .10 = (-4.5 = (-257.831)^{\circ}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{\circ} = \frac{\pi}{2}\right) & .6 = \left(2670^{\circ} = \frac{89\,\pi}{6}\right) \\ .2 = \left((-210)^{\circ} = -\frac{7\,\pi}{6}\right) & .7 = \left(2385^{\circ} = \frac{53\,\pi}{4}\right) \\ .3 = \left((-240)^{\circ} = -\frac{4\,\pi}{3}\right) & .8 = \left((-960)^{\circ} = -\frac{16\,\pi}{3}\right) \\ .4 = \left((-135)^{\circ} = -\frac{3\,\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{\circ} = 1.000\right) \\ .5 = ((-2160)^{\circ} = -12\,\pi) & .10 = \left(\left(-\frac{540}{\pi}\right)^{\circ} = -3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Cos}(\theta) = -\frac{2\sqrt{6}}{5}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\mathrm{Cos}(\theta) = -\frac{\sqrt{2}}{2}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[2\,\mathrm{Cot}(\theta) = \frac{8\sqrt{33}}{33}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = \frac{-29}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Sec}(\theta) - \mathrm{Tan}(\theta) = -\frac{\sqrt{6}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) - \mathrm{Csc}(\theta) = \frac{3\sqrt{5}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9018

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{63\pi}{4} = (\text{-}2835)^{o}\right) \\ .2 = \left(-\frac{\pi}{6} = (\text{-}30)^{o}\right) & .7 = \left(-\frac{29\pi}{3} = (\text{-}1740)^{o}\right) \\ .3 = \left(-\frac{2\pi}{3} = (\text{-}120)^{o}\right) & .8 = \left(-\frac{53\pi}{6} = (\text{-}1590)^{o}\right) \\ .4 = \left(-\frac{7\pi}{4} = (\text{-}315)^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{27\pi}{2} = 2430^{o}\right) & .10 = (5.5 = 315.127^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((\text{-}1680)^{o} = -\frac{28\pi}{3}\right) \\ .2 = \left(135^{o} = \frac{3\pi}{4}\right) & .7 = \left(2565^{o} = \frac{57\pi}{4}\right) \\ .3 = \left(210^{o} = \frac{7\pi}{6}\right) & .8 = \left((\text{-}2010)^{o} = -\frac{67\pi}{6}\right) \\ .4 = \left((\text{-}300)^{o} = -\frac{5\pi}{3}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = (1800^{o} = 10\pi) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = \text{-}3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{5\sqrt{21}}{21}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = [.1 = [Quadrant = Q3], .2 = [\mathrm{Csc}(\theta) = -\sqrt{5}\,]], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Cos}(\theta) - \mathrm{Cot}(\theta) = -\frac{\sqrt{3}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = [\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = 0], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cos}(\theta) - \mathrm{Cot}(\theta) = \frac{3\sqrt{33}}{28}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) + \mathrm{Tan}(\theta) = -\frac{\sqrt{2}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9036

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(\frac{85\pi}{6} = 2550^{o}\right) \\ .2 = \left(\frac{\pi}{3} = 60^{o}\right) & .7 = \left(\frac{47\pi}{3} = 2820^{o}\right) \\ .3 = \left(-\frac{3\pi}{4} = (-135)^{o}\right) & .8 = \left(-\frac{15\pi}{4} = (-675)^{o}\right) \\ .4 = \left(-\frac{7\pi}{6} = (-210)^{o}\right) & .9 = (7 = 401.070^{o}) \\ .5 = \left(-\frac{11\pi}{2} = (-990)^{o}\right) & .10 = (-3.5 = (-200.535)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-2730)^{o} = -\frac{91\pi}{6}\right) \\ .2 = \left((-30)^{o} = -\frac{\pi}{6}\right) & .7 = \left((-2295)^{o} = -\frac{51\pi}{4}\right) \\ .3 = \left((-240)^{o} = -\frac{4\pi}{3}\right) & .8 = \left((-1140)^{o} = -\frac{19\pi}{3}\right) \\ .4 = \left(45^{o} = \frac{\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = \left(810^{o} = \frac{9\pi}{2}\right) & .10 = \left(\left(-\frac{450}{\pi}\right)^{o} = -2.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{2\sqrt{3}}{3}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\mathrm{Csc}(\theta) = -\frac{5\sqrt{2}}{7}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Cot}(\theta) + \mathrm{Cos}(\theta) = \frac{27\sqrt{5}}{14}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Sec}(\theta) + \mathrm{Tan}(\theta) = \frac{\sqrt{7}}{7}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Csc}(\theta) - \mathrm{Sec}(\theta) = -\frac{3\sqrt{17}}{4}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) - \mathrm{Tan}(\theta) = \frac{11\sqrt{11}}{30}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9037

$$Ans1 = \left[\begin{array}{cc} .1 = (\pi = 180^{o}) & .6 = \left(\frac{23\,\pi}{4} = 1035^{o}\right) \\ .2 = \left(-\frac{5\,\pi}{4} = (\text{-}225)^{o}\right) & .7 = \left(-\frac{13\,\pi}{6} = (\text{-}390)^{o}\right) \\ .3 = \left(\frac{5\,\pi}{3} = 300^{o}\right) & .8 = \left(-\frac{13\,\pi}{3} = (\text{-}780)^{o}\right) \\ .4 = \left(-\frac{5\,\pi}{6} = (\text{-}150)^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(-\frac{11\,\pi}{2} = (\text{-}990)^{o}\right) & .10 = (2.5 = 143.239^{o}) \end{array}\right]$$

$$Ans2 = \left[\begin{array}{cc} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((\text{-}2280)^{o} = -\frac{38\,\pi}{3}\right) \\ .2 = \left((\text{-}315)^{o} = -\frac{7\,\pi}{4}\right) & .7 = \left((\text{-}2025)^{o} = -\frac{45\,\pi}{4}\right) \\ .3 = \left((\text{-}60)^{o} = -\frac{\pi}{3}\right) & .8 = \left((\text{-}2010)^{o} = -\frac{67\,\pi}{6}\right) \\ .4 = \left((\text{-}330)^{o} = -\frac{11\,\pi}{6}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = ((\text{-}2520)^{o} = -14\,\pi) & .10 = \left(\left(-\frac{990}{\pi}\right)^{o} = \text{-}5.500\right) \end{array}\right]$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\operatorname{Cos}(\theta) = -\frac{\sqrt{3}}{2}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\operatorname{Csc}(\theta) = \frac{\sqrt{5}}{2}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = [2\operatorname{Cot}(\theta) = 2\sqrt{3}], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\operatorname{Csc}(\theta) + \operatorname{Cot}(\theta) = -\frac{\sqrt{3}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\operatorname{Cot}(\theta) + \operatorname{Cos}(\theta) = -\frac{5\sqrt{55}}{24}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\operatorname{Csc}(\theta) + \operatorname{Cot}(\theta) = \frac{\sqrt{3}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9138

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{47\pi}{6} = (\text{-}1410)^o\right) \\ .2 = \left(-\frac{7\pi}{4} = (\text{-}315)^o\right) & .7 = \left(-\frac{49\pi}{4} = (\text{-}2205)^o\right) \\ .3 = \left(-\frac{\pi}{6} = (\text{-}30)^o\right) & .8 = \left(-\frac{16\pi}{3} = (\text{-}960)^o\right) \\ .4 = \left(\frac{\pi}{3} = 60^o\right) & .9 = (7 = 401.070^o) \\ .5 = \left(-\frac{19\pi}{2} = (\text{-}1710)^o\right) & .10 = (\text{-}1.5 = (\text{-}85.944)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left(1755^o = \frac{39\pi}{4}\right) \\ .2 = \left((\text{-}120)^o = -\frac{2\pi}{3}\right) & .7 = \left((\text{-}1500)^o = -\frac{25\pi}{3}\right) \\ .3 = \left((\text{-}135)^o = -\frac{3\pi}{4}\right) & .8 = \left(1650^o = \frac{55\pi}{6}\right) \\ .4 = \left((\text{-}330)^o = -\frac{11\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = ((\text{-}1080)^o = -6\pi) & .10 = \left(\left(\frac{630}{\pi}\right)^o = 3.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Tan}(\theta) = -\frac{\sqrt{21}}{2}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\text{Cos}(\theta) = -\frac{\sqrt{2}}{2}\right] \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sec}(\theta) + \text{Csc}(\theta) = \frac{8\sqrt{34}}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Sin}(\theta) + \text{Cos}(\theta) = -\frac{5\sqrt{58}}{29}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Cot}(\theta) - \text{Cos}(\theta) = -\frac{3\sqrt{15}}{4}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Csc}(\theta) + \text{Cot}(\theta) = -\frac{\sqrt{105}}{7}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9602

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{21\pi}{4} = 945^{o}\right) \\ .2 = \left(-\frac{7\pi}{4} = (-315)^{o}\right) & .7 = \left(-\frac{73\pi}{6} = (-2190)^{o}\right) \\ .3 = \left(-\frac{5\pi}{6} = (-150)^{o}\right) & .8 = \left(-\frac{40\pi}{3} = (-2400)^{o}\right) \\ .4 = \left(-\frac{\pi}{3} = (-60)^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(-\frac{23\pi}{2} = (-2070)^{o}\right) & .10 = (5.5 = 315.127^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((-1215)^{o} = -\frac{27\pi}{4}\right) \\ .2 = \left(45^{o} = \frac{\pi}{4}\right) & .7 = \left(1200^{o} = \frac{20\pi}{3}\right) \\ .3 = \left((-30)^{o} = -\frac{\pi}{6}\right) & .8 = \left(930^{o} = \frac{31\pi}{6}\right) \\ .4 = \left(300^{o} = \frac{5\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = ((-1080)^{o} = -6\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^{o} = 2.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Cot}(\theta) = -\frac{\sqrt{5}}{2}\right)\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\mathrm{Csc}(\theta) = -\frac{\sqrt{17}}{4}\right]\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = -\frac{\sqrt{3}}{6}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cot}(\theta) - \mathrm{Sec}(\theta) = -\frac{19\sqrt{15}}{15}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Tan}(\theta) - \mathrm{Csc}(\theta) = \frac{11\sqrt{2}}{4}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Cot}(\theta) - \mathrm{Csc}(\theta) = -\frac{3\sqrt{5}}{5}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9616

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{8\pi}{3} = (-480)^o\right) \\ .2 = \left(\frac{\pi}{6} = 30^o\right) & .7 = \left(\frac{49\pi}{6} = 1470^o\right) \\ .3 = \left(\frac{\pi}{3} = 60^o\right) & .8 = \left(\frac{63\pi}{4} = 2835^o\right) \\ .4 = \left(-\frac{7\pi}{4} = (-315)^o\right) & .9 = (7 = 401.070^o) \\ .5 = \left(\frac{23\pi}{2} = 2070^o\right) & .10 = (4.5 = 257.831^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((-495)^o = -\frac{11\pi}{4}\right) \\ .2 = \left(330^o = \frac{11\pi}{6}\right) & .7 = \left(420^o = \frac{7\pi}{3}\right) \\ .3 = \left(240^o = \frac{4\pi}{3}\right) & .8 = \left((-1230)^o = -\frac{41\pi}{6}\right) \\ .4 = \left((-135)^o = -\frac{3\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = ((-1440)^o = -8\pi) & .10 = \left(\left(-\frac{720}{\pi}\right)^o = -4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Cot}(\theta) = -\frac{2\sqrt{5}}{15}\right)\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\text{Cos}(\theta) = -\frac{5\sqrt{26}}{26}\right]\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\text{Sin}(\theta) + \text{Cos}(\theta) = \frac{3\sqrt{5}}{5}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\text{Sin}(\theta) - \text{Cot}(\theta) = \frac{-31}{20}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = [0 = 0], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\text{Csc}(\theta) - \text{Cos}(\theta) = -\frac{3\sqrt{2}}{2}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.10152

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{15\pi}{4} = (-675)^{o}\right) \\ .2 = \left(-\frac{7\pi}{6} = (-210)^{o}\right) & .7 = \left(\frac{16\pi}{3} = 960^{o}\right) \\ .3 = \left(-\frac{5\pi}{4} = (-225)^{o}\right) & .8 = \left(-\frac{41\pi}{6} = (-1230)^{o}\right) \\ .4 = \left(-\frac{5\pi}{3} = (-300)^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(\frac{27\pi}{2} = 2430^{o}\right) & .10 = (3.5 = 200.535^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((-2565)^{o} = -\frac{57\pi}{4}\right) \\ .2 = \left(150^{o} = \frac{5\pi}{6}\right) & .7 = \left(2820^{o} = \frac{47\pi}{3}\right) \\ .3 = \left(240^{o} = \frac{4\pi}{3}\right) & .8 = \left(1830^{o} = \frac{61\pi}{6}\right) \\ .4 = \left(135^{o} = \frac{3\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = ((-1440)^{o} = -8\pi) & .10 = \left(\left(\frac{990}{\pi}\right)^{o} = 5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Tan}(\theta) = -\frac{4\sqrt{105}}{105}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = [.1 = [Quadrant = Q2], .2 = [\text{Csc}(\theta) = \sqrt{26}]], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sec}(\theta) + \text{Csc}(\theta) = \frac{9\sqrt{53}}{14}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Cos}(\theta) + \text{Tan}(\theta) = \frac{59\sqrt{119}}{1428}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = [\text{Sin}(\theta) + \text{Cos}(\theta) = 0], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Csc}(\theta) - \text{Cot}(\theta) = -\frac{3\sqrt{7}}{7}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.11738

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{19\pi}{6} = (-570)^{o}\right) \\ .2 = \left(\frac{7\pi}{4} = 315^{o}\right) & .7 = \left(\frac{9\pi}{4} = 405^{o}\right) \\ .3 = \left(\frac{\pi}{6} = 30^{o}\right) & .8 = \left(-\frac{32\pi}{3} = (-1920)^{o}\right) \\ .4 = \left(\frac{4\pi}{3} = 240^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(-\frac{27\pi}{2} = (-2430)^{o}\right) & .10 = (-3.5 = (-200.535)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\pi}{2}\right) & .6 = \left((-750)^{o} = -\frac{25\pi}{6}\right) \\ .2 = \left((-45)^{o} = -\frac{\pi}{4}\right) & .7 = \left(1680^{o} = \frac{28\pi}{3}\right) \\ .3 = \left((-330)^{o} = -\frac{11\pi}{6}\right) & .8 = \left((-1035)^{o} = -\frac{23\pi}{4}\right) \\ .4 = \left(60^{o} = \frac{\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((-1800)^{o} = -10\pi) & .10 = \left(\left(-\frac{810}{\pi}\right)^{o} = -4.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Csc}(\theta) = -\frac{3\sqrt{5}}{5}\right)\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\text{Sin}(\theta) = \frac{\sqrt{17}}{17}\right]\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Csc}(\theta) + \text{Tan}(\theta) = \frac{19\sqrt{7}}{21}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Cot}(\theta) - \text{Cos}(\theta) = \frac{13\sqrt{91}}{30}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Tan}(\theta) + \text{Cot}(\theta) = -\frac{9\sqrt{5}}{10}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = [\text{Sin}(\theta) - \text{Cos}(\theta) = -\sqrt{2}], \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.11754

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{31\pi}{4} = (-1395)^{o}\right) \\ .2 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .7 = \left(-\frac{55\pi}{6} = (-1650)^{o}\right) \\ .3 = \left(\frac{5\pi}{6} = 150^{o}\right) & .8 = \left(\frac{26\pi}{3} = 1560^{o}\right) \\ .4 = \left(\frac{4\pi}{3} = 240^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{23\pi}{2} = 2070^{o}\right) & .10 = (6.5 = 372.423^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-1770)^{o} = -\frac{59\pi}{6}\right) \\ .2 = \left((-60)^{o} = -\frac{\pi}{3}\right) & .7 = \left(1935^{o} = \frac{43\pi}{4}\right) \\ .3 = \left((-225)^{o} = -\frac{5\pi}{4}\right) & .8 = \left((-1500)^{o} = -\frac{25\pi}{3}\right) \\ .4 = \left((-330)^{o} = -\frac{11\pi}{6}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = \left((-2610)^{o} = -\frac{29\pi}{2}\right) & .10 = \left(\left(\frac{990}{\pi}\right)^{o} = 5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{2\sqrt{3}}{3}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\mathrm{Cos}(\theta) = -\frac{\sqrt{2}}{10}\right] \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Csc}(\theta) + \mathrm{Tan}(\theta) = \frac{179\sqrt{119}}{595}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cot}(\theta) - \mathrm{Tan}(\theta) = -\frac{\sqrt{5}}{10}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Tan}(\theta) + \mathrm{Sin}(\theta) = -\frac{3\sqrt{33}}{28}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) - \mathrm{Cos}(\theta) = \frac{\sqrt{74}}{37}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.11841

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(-\frac{79\,\pi}{6} = (-2370)^o\right) \\ .2 = \left(\frac{3\,\pi}{4} = 135^o\right) & .7 = \left(-\frac{22\,\pi}{3} = (-1320)^o\right) \\ .3 = \left(-\frac{\pi}{3} = (-60)^o\right) & .8 = \left(\frac{21\,\pi}{4} = 945^o\right) \\ .4 = \left(-\frac{11\,\pi}{6} = (-330)^o\right) & .9 = (7 = 401.070^o) \\ .5 = \left(\frac{7\,\pi}{2} = 630^o\right) & .10 = (4.5 = 257.831^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\,\pi}{2}\right) & .6 = \left(1230^o = \frac{41\,\pi}{6}\right) \\ .2 = \left(240^o = \frac{4\,\pi}{3}\right) & .7 = \left(2460^o = \frac{41\,\pi}{3}\right) \\ .3 = \left((-45)^o = -\frac{\pi}{4}\right) & .8 = \left((-2655)^o = -\frac{59\,\pi}{4}\right) \\ .4 = \left((-30)^o = -\frac{\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^o = 1.500\right) \\ .5 = ((-2160)^o = -12\,\pi) & .10 = \left(\left(\frac{810}{\pi}\right)^o = 4.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Tan}(\theta) = \frac{-3}{4}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\mathrm{Csc}(\theta) = \frac{\sqrt{17}}{4}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Sec}(\theta) - \mathrm{Sin}(\theta) = \frac{31\sqrt{61}}{366}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cot}(\theta) + \mathrm{Sec}(\theta) = -\frac{41\sqrt{3}}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = [2\,\mathrm{Tan}(\theta) = -2\sqrt{3}\,], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) - \mathrm{Sin}(\theta) = -\frac{\sqrt{2}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{29\,\pi}{6} = (\text{-}870)^{o}\right) \\ .2 = \left(-\frac{3\,\pi}{4} = (\text{-}135)^{o}\right) & .7 = \left(\frac{59\,\pi}{4} = 2655^{o}\right) \\ .3 = \left(\frac{\pi}{3} = 60^{o}\right) & .8 = \left(\frac{23\,\pi}{3} = 1380^{o}\right) \\ .4 = \left(\frac{7\,\pi}{6} = 210^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(-\frac{23\,\pi}{2} = (\text{-}2070)^{o}\right) & .10 = (\text{-}1.5 = (\text{-}85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((\text{-}2205)^{o} = -\frac{49\,\pi}{4}\right) \\ .2 = \left((\text{-}315)^{o} = -\frac{7\,\pi}{4}\right) & .7 = \left((\text{-}930)^{o} = -\frac{31\,\pi}{6}\right) \\ .3 = \left(150^{o} = \frac{5\,\pi}{6}\right) & .8 = \left((\text{-}1920)^{o} = -\frac{32\,\pi}{3}\right) \\ .4 = \left(240^{o} = \frac{4\,\pi}{3}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = ((\text{-}1440)^{o} = -8\,\pi) & .10 = \left(\left(-\frac{900}{\pi}\right)^{o} = \text{-}5.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Tan}(\theta) = -\frac{\sqrt{35}}{35}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = [.1 = [Quadrant = Q2], .2 = [\text{Csc}(\theta) = \sqrt{26}\,]], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sin}(\theta) - \text{Sec}(\theta) = -\frac{39\sqrt{74}}{518}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Sec}(\theta) + \text{Csc}(\theta) = -\frac{\sqrt{5}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = [0 = 0], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Sin}(\theta) - \text{Cot}(\theta) = -\frac{41\sqrt{11}}{66}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.11901

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(\frac{39\,\pi}{4} = 1755^o\right) \\ .2 = \left(-\frac{\pi}{6} = (-30)^o\right) & .7 = \left(-\frac{29\,\pi}{3} = (-1740)^o\right) \\ .3 = \left(-\frac{\pi}{3} = (-60)^o\right) & .8 = \left(\frac{31\,\pi}{6} = 930^o\right) \\ .4 = \left(\frac{7\,\pi}{4} = 315^o\right) & .9 = (4 = 229.183^o) \\ .5 = \left(\frac{23\,\pi}{2} = 2070^o\right) & .10 = (0.5 = 28.648^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^o = \pi) & .6 = \left((-2850)^o = -\frac{95\,\pi}{6}\right) \\ .2 = \left(330^o = \frac{11\,\pi}{6}\right) & .7 = \left((-1935)^o = -\frac{43\,\pi}{4}\right) \\ .3 = \left(120^o = \frac{2\,\pi}{3}\right) & .8 = \left((-1920)^o = -\frac{32\,\pi}{3}\right) \\ .4 = \left(225^o = \frac{5\,\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = \left(1890^o = \frac{21\,\pi}{2}\right) & .10 = \left(\left(\frac{540}{\pi}\right)^o = 3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Cot}(\theta) = -\frac{4\sqrt{105}}{105}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\mathrm{Sec}(\theta) = \frac{\sqrt{5}}{2}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = \frac{7\sqrt{29}}{29}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cot}(\theta) + \mathrm{Cos}(\theta) = -\frac{8\sqrt{2}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Csc}(\theta) - \mathrm{Sec}(\theta) = \frac{\sqrt{41}}{20}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = \frac{5\sqrt{53}}{53}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.11947

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{43\pi}{4} = (\text{-}1935)^{o}\right) \\ .2 = \left(\frac{5\pi}{3} = 300^{o}\right) & .7 = \left(-\frac{17\pi}{3} = (\text{-}1020)^{o}\right) \\ .3 = \left(-\frac{7\pi}{4} = (\text{-}315)^{o}\right) & .8 = \left(\frac{41\pi}{6} = 1230^{o}\right) \\ .4 = \left(-\frac{11\pi}{6} = (\text{-}330)^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(\frac{19\pi}{2} = 1710^{o}\right) & .10 = (3.5 = 200.535^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((\text{-}780)^{o} = -\frac{13\pi}{3}\right) \\ .2 = \left(210^{o} = \frac{7\pi}{6}\right) & .7 = \left(1395^{o} = \frac{31\pi}{4}\right) \\ .3 = \left(225^{o} = \frac{5\pi}{4}\right) & .8 = \left((\text{-}2490)^{o} = -\frac{83\pi}{6}\right) \\ .4 = \left(60^{o} = \frac{\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = ((\text{-}2880)^{o} = -16\pi) & .10 = \left(\left(\frac{540}{\pi}\right)^{o} = 3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Sec}(\theta) = \frac{-5}{4}\right)\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = [.1 = [Quadrant = Q3], .2 = [\text{Csc}(\theta) = -\sqrt{37}\,]], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\text{Cot}(\theta) - \text{Tan}(\theta) = \frac{\sqrt{5}}{10}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\text{Sin}(\theta) - \text{Sec}(\theta) = -\frac{49\sqrt{34}}{102}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\text{Tan}(\theta) - \text{Cot}(\theta) = -\frac{47\sqrt{3}}{12}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\text{Sec}(\theta) - \text{Cot}(\theta) = -\frac{\sqrt{39}}{195}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.11989

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(\frac{16\,\pi}{3} = 960^{o}\right) \\ .2 = \left(\frac{5\,\pi}{4} = 225^{o}\right) & .7 = \left(-\frac{39\,\pi}{4} = (\text{-}1755)^{o}\right) \\ .3 = \left(\frac{5\,\pi}{6} = 150^{o}\right) & .8 = \left(-\frac{83\,\pi}{6} = (\text{-}2490)^{o}\right) \\ .4 = \left(\frac{4\,\pi}{3} = 240^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(-\frac{15\,\pi}{2} = (\text{-}1350)^{o}\right) & .10 = (\text{-}6.5 = (\text{-}372.423)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((\text{-}2550)^{o} = -\frac{85\,\pi}{6}\right) \\ .2 = \left((\text{-}300)^{o} = -\frac{5\,\pi}{3}\right) & .7 = \left((\text{-}480)^{o} = -\frac{8\,\pi}{3}\right) \\ .3 = \left(330^{o} = \frac{11\,\pi}{6}\right) & .8 = \left(1125^{o} = \frac{25\,\pi}{4}\right) \\ .4 = \left((\text{-}45)^{o} = -\frac{\pi}{4}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = (1080^{o} = 6\,\pi) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = \text{-}3.000\right) \end{bmatrix}$$

$$Ans3 = [.1 = [Quadrant = Q2], .2 = (\mathrm{Cot}(\theta) = -2\sqrt{2})], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\mathrm{Sin}(\theta) = -\frac{\sqrt{2}}{10}\right]\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\mathrm{Csc}(\theta) - \mathrm{Sec}(\theta) = \frac{3\sqrt{29}}{10}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\mathrm{Cot}(\theta) + \mathrm{Cos}(\theta) = \frac{\text{-}8}{15}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\mathrm{Sin}(\theta) - \mathrm{Tan}(\theta) = \frac{8\sqrt{2}}{3}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\mathrm{Cos}(\theta) + \mathrm{Csc}(\theta) = -\frac{13\sqrt{10}}{30}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.11996

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{26\,\pi}{3} = (\text{-}1560)^{o}\right) \\ .2 = \left(-\frac{\pi}{6} = (\text{-}30)^{o}\right) & .7 = \left(-\frac{51\,\pi}{4} = (\text{-}2295)^{o}\right) \\ .3 = \left(-\frac{7\,\pi}{4} = (\text{-}315)^{o}\right) & .8 = \left(-\frac{77\,\pi}{6} = (\text{-}2310)^{o}\right) \\ .4 = \left(-\frac{2\,\pi}{3} = (\text{-}120)^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(\frac{25\,\pi}{2} = 2250^{o}\right) & .10 = (\text{-}5.5 = (\text{-}315.127)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(570^{o} = \frac{19\,\pi}{6}\right) \\ .2 = \left(45^{o} = \frac{\pi}{4}\right) & .7 = \left(2475^{o} = \frac{55\,\pi}{4}\right) \\ .3 = \left(330^{o} = \frac{11\,\pi}{6}\right) & .8 = \left((\text{-}2760)^{o} = -\frac{46\,\pi}{3}\right) \\ .4 = \left(300^{o} = \frac{5\,\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = \left((\text{-}990)^{o} = -\frac{11\,\pi}{2}\right) & .10 = \left(\left(\frac{450}{\pi}\right)^{o} = 2.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Cot}(\theta) = -\frac{5\sqrt{11}}{11}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\text{Cos}(\theta) = -\frac{\sqrt{2}}{2}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sin}(\theta) - \text{Tan}(\theta) = -\frac{\sqrt{11}}{30}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[2\,\text{Cot}(\theta) = -\frac{2\sqrt{15}}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = [0 = 0], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Cos}(\theta) - \text{Cot}(\theta) = -\frac{13\sqrt{91}}{30}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.12889

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{34\pi}{3} = (\text{-}2040)^{o}\right) \\ .2 = \left(\frac{5\pi}{4} = 225^{o}\right) & .7 = \left(\frac{61\pi}{4} = 2745^{o}\right) \\ .3 = \left(-\frac{5\pi}{3} = (\text{-}300)^{o}\right) & .8 = \left(-\frac{91\pi}{6} = (\text{-}2730)^{o}\right) \\ .4 = \left(-\frac{7\pi}{6} = (\text{-}210)^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(\frac{21\pi}{2} = 1890^{o}\right) & .10 = (\text{-}4.5 = (\text{-}257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\pi}{2}\right) & .6 = \left((\text{-}1215)^{o} = -\frac{27\pi}{4}\right) \\ .2 = \left(240^{o} = \frac{4\pi}{3}\right) & .7 = \left((\text{-}510)^{o} = -\frac{17\pi}{6}\right) \\ .3 = \left((\text{-}330)^{o} = -\frac{11\pi}{6}\right) & .8 = \left((\text{-}2640)^{o} = -\frac{44\pi}{3}\right) \\ .4 = \left(45^{o} = \frac{\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = (1800^{o} = 10\pi) & .10 = \left(\left(-\frac{720}{\pi}\right)^{o} = \text{-}4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Tan}(\theta) = -\frac{5\sqrt{6}}{24}\right)\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = [.1 = [Quadrant = Q3], .2 = [\text{Csc}(\theta) = -\sqrt{2}\,]], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\text{Tan}(\theta) - \text{Csc}(\theta) = \frac{11\sqrt{15}}{15}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\text{Csc}(\theta) + \text{Cot}(\theta) = -\frac{\sqrt{6}}{4}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\text{Cos}(\theta) + \text{Csc}(\theta) = \frac{3\sqrt{5}}{10}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\text{Cot}(\theta) - \text{Cos}(\theta) = -\frac{7\sqrt{35}}{6}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{\circ}) & .6 = \left(-\frac{21\pi}{4} = (-945)^{\circ}\right) \\ .2 = \left(-\frac{2\pi}{3} = (-120)^{\circ}\right) & .7 = \left(-\frac{19\pi}{6} = (-570)^{\circ}\right) \\ .3 = \left(-\frac{11\pi}{6} = (-330)^{\circ}\right) & .8 = \left(\frac{41\pi}{3} = 2460^{\circ}\right) \\ .4 = \left(-\frac{3\pi}{4} = (-135)^{\circ}\right) & .9 = (1 = 57.296^{\circ}) \\ .5 = \left(\frac{25\pi}{2} = 2250^{\circ}\right) & .10 = (-2.5 = (-143.239)^{\circ}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{\circ} = \frac{3\pi}{2}\right) & .6 = \left((-2220)^{\circ} = -\frac{37\pi}{3}\right) \\ .2 = \left((-45)^{\circ} = -\frac{\pi}{4}\right) & .7 = \left((-2130)^{\circ} = -\frac{71\pi}{6}\right) \\ .3 = \left((-150)^{\circ} = -\frac{5\pi}{6}\right) & .8 = \left(1845^{\circ} = \frac{41\pi}{4}\right) \\ .4 = \left(300^{\circ} = \frac{5\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{\circ} = 1.500\right) \\ .5 = ((-720)^{\circ} = -4\pi) & .10 = \left(\left(-\frac{810}{\pi}\right)^{\circ} = -4.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{2\sqrt{3}}{3}\right)\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = [.1 = [Quadrant = Q3], .2 = [\mathrm{Csc}(\theta) = -\sqrt{2}]], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Sin}(\theta) + \mathrm{Cot}(\theta) = \frac{61\sqrt{10}}{140}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cos}(\theta) + \mathrm{Csc}(\theta) = \frac{57\sqrt{113}}{791}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Sin}(\theta) - \mathrm{Sec}(\theta) = \frac{\sqrt{2}}{2}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) + \mathrm{Cot}(\theta) = -\frac{9\sqrt{5}}{10}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.12891

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{32\pi}{3} = (-1920)^{o}\right) \\ .2 = \left(\frac{5\pi}{6} = 150^{o}\right) & .7 = \left(\frac{63\pi}{4} = 2835^{o}\right) \\ .3 = \left(-\frac{4\pi}{3} = (-240)^{o}\right) & .8 = \left(\frac{13\pi}{6} = 390^{o}\right) \\ .4 = \left(-\frac{3\pi}{4} = (-135)^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{27\pi}{2} = 2430^{o}\right) & .10 = (-4.5 = (-257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((-2760)^{o} = -\frac{46\pi}{3}\right) \\ .2 = \left((-300)^{o} = -\frac{5\pi}{3}\right) & .7 = \left((-510)^{o} = -\frac{17\pi}{6}\right) \\ .3 = \left((-315)^{o} = -\frac{7\pi}{4}\right) & .8 = \left((-2205)^{o} = -\frac{49\pi}{4}\right) \\ .4 = \left((-330)^{o} = -\frac{11\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = \left(1170^{o} = \frac{13\pi}{2}\right) & .10 = \left(\left(\frac{810}{\pi}\right)^{o} = 4.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Tan}(\theta) = -\frac{3\sqrt{10}}{20}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\text{Sec}(\theta) = -\frac{\sqrt{17}}{4}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sin}(\theta) - \text{Cos}(\theta) = -\frac{\sqrt{13}}{13}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Tan}(\theta) + \text{Cot}(\theta) = -\frac{81\sqrt{65}}{260}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Csc}(\theta) - \text{Tan}(\theta) = \frac{29\sqrt{6}}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Sec}(\theta) + \text{Sin}(\theta) = -\frac{129\sqrt{89}}{445}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.12917

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(\frac{23\,\pi}{4} = 1035^{o}\right) \\ .2 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .7 = \left(\frac{65\,\pi}{6} = 1950^{o}\right) \\ .3 = \left(\frac{7\,\pi}{4} = 315^{o}\right) & .8 = \left(-\frac{44\,\pi}{3} = (-2640)^{o}\right) \\ .4 = \left(\frac{5\,\pi}{3} = 300^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{17\,\pi}{2} = 1530^{o}\right) & .10 = (-0.5 = (-28.648)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((-1740)^{o} = -\frac{29\,\pi}{3}\right) \\ .2 = \left(240^{o} = \frac{4\,\pi}{3}\right) & .7 = \left(930^{o} = \frac{31\,\pi}{6}\right) \\ .3 = \left(135^{o} = \frac{3\,\pi}{4}\right) & .8 = \left(1665^{o} = \frac{37\,\pi}{4}\right) \\ .4 = \left(210^{o} = \frac{7\,\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = ((-360)^{o} = -2\,\pi) & .10 = \left(\left(\frac{810}{\pi}\right)^{o} = 4.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Tan}(\theta) = -\frac{\sqrt{11}}{5}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\mathrm{Sin}(\theta) = \frac{4\sqrt{17}}{17}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Cos}(\theta) + \mathrm{Csc}(\theta) = \frac{37}{20}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = \frac{-7}{5}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = [2\,\mathrm{Cot}(\theta) = -2\sqrt{3}\,], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) - \mathrm{Tan}(\theta) = \frac{24\sqrt{3}}{7}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.13099

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{47\pi}{6} = (-1410)^o\right) \\ .2 = \left(\frac{7\pi}{4} = 315^o\right) & .7 = \left(\frac{39\pi}{4} = 1755^o\right) \\ .3 = \left(-\frac{4\pi}{3} = (-240)^o\right) & .8 = \left(\frac{38\pi}{3} = 2280^o\right) \\ .4 = \left(-\frac{\pi}{6} = (-30)^o\right) & .9 = (7 = 401.070^o) \\ .5 = \left(\frac{11\pi}{2} = 990^o\right) & .10 = (0.5 = 28.648^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left(2220^o = \frac{37\pi}{3}\right) \\ .2 = \left(120^o = \frac{2\pi}{3}\right) & .7 = \left(2670^o = \frac{89\pi}{6}\right) \\ .3 = \left(330^o = \frac{11\pi}{6}\right) & .8 = \left(1665^o = \frac{37\pi}{4}\right) \\ .4 = \left((-135)^o = -\frac{3\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = (1440^o = 8\pi) & .10 = \left(\left(\frac{990}{\pi}\right)^o = 5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Cot}(\theta) = -\frac{\sqrt{3}}{3}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\mathrm{Sin}(\theta) = -\frac{\sqrt{2}}{2}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Sec}(\theta) - \mathrm{Tan}(\theta) = \frac{\sqrt{3}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Sec}(\theta) - \mathrm{Cot}(\theta) = -\frac{29\sqrt{6}}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[2\,\mathrm{Cot}(\theta) = -\frac{8\sqrt{105}}{105}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = -\frac{\sqrt{61}}{61}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.13100

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{11\pi}{3} = (-660)^{o}\right) \\ .2 = \left(\frac{11\pi}{6} = 330^{o}\right) & .7 = \left(\frac{61\pi}{6} = 1830^{o}\right) \\ .3 = \left(\frac{4\pi}{3} = 240^{o}\right) & .8 = \left(-\frac{41\pi}{4} = (-1845)^{o}\right) \\ .4 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(-\frac{31\pi}{2} = (-2790)^{o}\right) & .10 = (3.5 = 200.535^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(1860^{o} = \frac{31\pi}{3}\right) \\ .2 = \left((-225)^{o} = -\frac{5\pi}{4}\right) & .7 = \left(2835^{o} = \frac{63\pi}{4}\right) \\ .3 = \left(60^{o} = \frac{\pi}{3}\right) & .8 = \left((-1230)^{o} = -\frac{41\pi}{6}\right) \\ .4 = \left((-210)^{o} = -\frac{7\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = ((-1080)^{o} = -6\pi) & .10 = \left(\left(-\frac{990}{\pi}\right)^{o} = -5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Tan}(\theta) = -\frac{\sqrt{39}}{5}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = [.1 = [Quadrant = Q2], .2 = [\mathrm{Csc}(\theta) = \sqrt{37}]], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Cot}(\theta) - \mathrm{Tan}(\theta) = \frac{2\sqrt{3}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Sin}(\theta) + \mathrm{Cot}(\theta) = -\frac{11\sqrt{6}}{84}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = [\mathrm{Csc}(\theta) + \mathrm{Cot}(\theta) = -3], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = [\mathrm{Tan}(\theta) - \mathrm{Sec}(\theta) = \sqrt{11}], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.13139

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{\circ}\right) & .6 = \left(\frac{21\pi}{4} = 945^{\circ}\right) \\ .2 = \left(\frac{7\pi}{4} = 315^{\circ}\right) & .7 = \left(-\frac{10\pi}{3} = (-600)^{\circ}\right) \\ .3 = \left(\frac{5\pi}{6} = 150^{\circ}\right) & .8 = \left(\frac{29\pi}{6} = 870^{\circ}\right) \\ .4 = \left(\frac{4\pi}{3} = 240^{\circ}\right) & .9 = (4 = 229.183^{\circ}) \\ .5 = \left(-\frac{5\pi}{2} = (-450)^{\circ}\right) & .10 = (0.5 = 28.648^{\circ}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{\circ} = \frac{\pi}{2}\right) & .6 = \left((-1845)^{\circ} = -\frac{41\pi}{4}\right) \\ .2 = \left((-225)^{\circ} = -\frac{5\pi}{4}\right) & .7 = \left((-2640)^{\circ} = -\frac{44\pi}{3}\right) \\ .3 = \left(120^{\circ} = \frac{2\pi}{3}\right) & .8 = \left((-1290)^{\circ} = -\frac{43\pi}{6}\right) \\ .4 = \left(210^{\circ} = \frac{7\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{\circ} = 1.500\right) \\ .5 = ((-1080)^{\circ} = -6\pi) & .10 = \left(\left(-\frac{630}{\pi}\right)^{\circ} = -3.500\right) \end{bmatrix}$$

$$Ans3 = [.1 = [Quadrant = Q4], .2 = (\text{Tan}(\theta) = -4\sqrt{3})], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = [.1 = [Quadrant = Q3], .2 = [\text{Csc}(\theta) = -\sqrt{37}]], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Cos}(\theta) + \text{Csc}(\theta) = \frac{129\sqrt{89}}{712}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Csc}(\theta) + \text{Cot}(\theta) = -\frac{\sqrt{3}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = [\text{Sec}(\theta) - \text{Tan}(\theta) = \sqrt{3}], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = [0 = 0], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.13411

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{23\pi}{6} = (-690)^o\right) \\ .2 = \left(\frac{5\pi}{3} = 300^o\right) & .7 = \left(\frac{19\pi}{3} = 1140^o\right) \\ .3 = \left(-\frac{5\pi}{6} = (-150)^o\right) & .8 = \left(\frac{33\pi}{4} = 1485^o\right) \\ .4 = \left(\frac{5\pi}{4} = 225^o\right) & .9 = (3 = 171.887^o) \\ .5 = \left(-\frac{21\pi}{2} = (-1890)^o\right) & .10 = (-5.5 = (-315.127)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((-510)^o = -\frac{17\pi}{6}\right) \\ .2 = \left((-135)^o = -\frac{3\pi}{4}\right) & .7 = \left(495^o = \frac{11\pi}{4}\right) \\ .3 = \left(240^o = \frac{4\pi}{3}\right) & .8 = \left((-1320)^o = -\frac{22\pi}{3}\right) \\ .4 = \left((-210)^o = -\frac{7\pi}{6}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^o = 0.500\right) \\ .5 = (1080^o = 6\pi) & .10 = \left(\left(\frac{990}{\pi}\right)^o = 5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Cot}(\theta) = -\frac{\sqrt{105}}{4}\right)\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = [.1 = [Quadrant = Q2], .2 = [\text{Csc}(\theta) = \sqrt{37}\,]], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\text{Tan}(\theta) + \text{Sin}(\theta) = \frac{11\sqrt{11}}{30}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\text{Sin}(\theta) + \text{Cot}(\theta) = -\frac{95\sqrt{77}}{693}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\text{Sin}(\theta) + \text{Cos}(\theta) = \frac{5\sqrt{53}}{53}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\text{Cos}(\theta) + \text{Tan}(\theta) = -\frac{29\sqrt{65}}{585}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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