TrigonometryExercise3 Answers for No.9124

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{38\,\pi}{3} = (\text{-}2280)^{o}\right) \\ .2 = \left(-\frac{5\,\pi}{3} = (\text{-}300)^{o}\right) & .7 = \left(\frac{9\,\pi}{4} = 405^{o}\right) \\ .3 = \left(-\frac{\pi}{6} = (\text{-}30)^{o}\right) & .8 = \left(-\frac{55\,\pi}{6} = (\text{-}1650)^{o}\right) \\ .4 = \left(\frac{5\,\pi}{4} = 225^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(-\frac{29\,\pi}{2} = (\text{-}2610)^{o}\right) & .10 = (\text{-}5.5 = (\text{-}315.127)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(870^{o} = \frac{29\,\pi}{6}\right) \\ .2 = \left((\text{-}315)^{o} = -\frac{7\,\pi}{4}\right) & .7 = \left((\text{-}780)^{o} = -\frac{13\,\pi}{3}\right) \\ .3 = \left(240^{o} = \frac{4\,\pi}{3}\right) & .8 = \left((\text{-}1035)^{o} = -\frac{23\,\pi}{4}\right) \\ .4 = \left((\text{-}210)^{o} = -\frac{7\,\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = \left(2790^{o} = \frac{31\,\pi}{2}\right) & .10 = \left(\left(-\frac{990}{\pi}\right)^{o} = \text{-}5.500\right) \end{bmatrix}$$

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

$$Ans4 = [.1 = [Quadrant = Q3], .2 = [\text{Csc}(\theta) = -\sqrt{10}\,]], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sin}(\theta) + \text{Sec}(\theta) = \frac{7\sqrt{5}}{10}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\text{Cos}(\theta) - \text{Tan}(\theta) = \frac{55\sqrt{3}}{84}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Cot}(\theta) - \text{Sin}(\theta) = \frac{5\sqrt{3}}{6}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9197

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(-\frac{44\,\pi}{3} = (\text{-}2640)^o\right) \\ .2 = \left(\frac{4\,\pi}{3} = 240^o\right) & .7 = \left(-\frac{55\,\pi}{4} = (\text{-}2475)^o\right) \\ .3 = \left(-\frac{7\,\pi}{6} = (\text{-}210)^o\right) & .8 = \left(\frac{29\,\pi}{6} = 870^o\right) \\ .4 = \left(-\frac{7\,\pi}{4} = (\text{-}315)^o\right) & .9 = (3 = 171.887^o) \\ .5 = \left(-\frac{9\,\pi}{2} = (\text{-}810)^o\right) & .10 = (\text{-}2.5 = (\text{-}143.239)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\,\pi}{2}\right) & .6 = \left(570^o = \frac{19\,\pi}{6}\right) \\ .2 = \left(225^o = \frac{5\,\pi}{4}\right) & .7 = \left(2760^o = \frac{46\,\pi}{3}\right) \\ .3 = \left((\text{-}60)^o = -\frac{\pi}{3}\right) & .8 = \left(2205^o = \frac{49\,\pi}{4}\right) \\ .4 = \left(330^o = \frac{11\,\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = \left(630^o = \frac{7\,\pi}{2}\right) & .10 = \left(\left(-\frac{630}{\pi}\right)^o = \text{-}3.500\right) \end{bmatrix}$$

$$Ans3 = [.1 = [Quadrant = Q2], .2 = (\text{Cot}(\theta) = -4\sqrt{3})], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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

$$Ans5 = \left[\text{Cot}(\theta) - \text{Sin}(\theta) = -\frac{29\sqrt{35}}{210}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\text{Cot}(\theta) + \text{Cos}(\theta) = -\frac{11\sqrt{77}}{18}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\text{Sec}(\theta) + \text{Cot}(\theta) = -\frac{5\sqrt{7}}{21}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\text{Tan}(\theta) - \text{Csc}(\theta) = \frac{11\sqrt{6}}{60}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.9252

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(\frac{8\pi}{3} = 480^{o}\right) \\ .2 = \left(-\frac{5\pi}{3} = (\text{-}300)^{o}\right) & .7 = \left(\frac{31\pi}{4} = 1395^{o}\right) \\ .3 = \left(\frac{5\pi}{6} = 150^{o}\right) & .8 = \left(\frac{83\pi}{6} = 2490^{o}\right) \\ .4 = \left(\frac{5\pi}{4} = 225^{o}\right) & .9 = (7 = 401.070^{o}) \\ .5 = \left(\frac{25\pi}{2} = 2250^{o}\right) & .10 = (\text{-}2.5 = (\text{-}143.239)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(2295^{o} = \frac{51\pi}{4}\right) \\ .2 = \left(30^{o} = \frac{\pi}{6}\right) & .7 = \left(1950^{o} = \frac{65\pi}{6}\right) \\ .3 = \left((\text{-}240)^{o} = -\frac{4\pi}{3}\right) & .8 = \left((\text{-}1380)^{o} = -\frac{23\pi}{3}\right) \\ .4 = \left(135^{o} = \frac{3\pi}{4}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((\text{-}1800)^{o} = -10\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^{o} = 2.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sin}(\theta) + \mathrm{Cot}(\theta) = \frac{11\sqrt{2}}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Csc}(\theta) + \mathrm{Tan}(\theta) = -\frac{19\sqrt{7}}{21}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cot}(\theta) + \mathrm{Cos}(\theta) = -\frac{8\sqrt{2}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) - \mathrm{Sin}(\theta) = \frac{13\sqrt{39}}{40}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9312

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(\frac{46\,\pi}{3} = 2760^o\right) \\ .2 = \left(-\frac{3\,\pi}{4} = (-135)^o\right) & .7 = \left(\frac{89\,\pi}{6} = 2670^o\right) \\ .3 = \left(-\frac{5\,\pi}{6} = (-150)^o\right) & .8 = \left(-\frac{53\,\pi}{4} = (-2385)^o\right) \\ .4 = \left(-\frac{2\,\pi}{3} = (-120)^o\right) & .9 = (5 = 286.479^o) \\ .5 = \left(-\frac{11\,\pi}{2} = (-990)^o\right) & .10 = (-2.5 = (-143.239)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^o = \pi) & .6 = \left((-1830)^o = -\frac{61\,\pi}{6}\right) \\ .2 = \left((-315)^o = -\frac{7\,\pi}{4}\right) & .7 = \left((-2580)^o = -\frac{43\,\pi}{3}\right) \\ .3 = \left(300^o = \frac{5\,\pi}{3}\right) & .8 = \left((-2295)^o = -\frac{51\,\pi}{4}\right) \\ .4 = \left(330^o = \frac{11\,\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = \left(2250^o = \frac{25\,\pi}{2}\right) & .10 = \left(\left(-\frac{450}{\pi}\right)^o = -2.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left[\mathrm{Sin}(\theta) = -\frac{3\sqrt{7}}{8}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\mathrm{Sin}(\theta) = -\frac{\sqrt{37}}{37}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Sin}(\theta) + \mathrm{Cot}(\theta) = \frac{5\sqrt{3}}{6}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = -\frac{12\sqrt{74}}{35}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Tan}(\theta) + \mathrm{Cos}(\theta) = \frac{5\sqrt{2}}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) + \mathrm{Cos}(\theta) = -\frac{101\sqrt{65}}{585}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9397

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(-\frac{34\,\pi}{3} = (\text{-}2040)^o\right) \\ .2 = \left(\frac{\pi}{4} = 45^o\right) & .7 = \left(\frac{73\,\pi}{6} = 2190^o\right) \\ .3 = \left(\frac{5\,\pi}{6} = 150^o\right) & .8 = \left(-\frac{45\,\pi}{4} = (\text{-}2025)^o\right) \\ .4 = \left(\frac{2\,\pi}{3} = 120^o\right) & .9 = (3 = 171.887^o) \\ .5 = \left(-\frac{25\,\pi}{2} = (\text{-}2250)^o\right) & .10 = (6.5 = 372.423^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\,\pi}{2}\right) & .6 = \left((\text{-}2580)^o = -\frac{43\,\pi}{3}\right) \\ .2 = \left(135^o = \frac{3\,\pi}{4}\right) & .7 = \left((\text{-}2835)^o = -\frac{63\,\pi}{4}\right) \\ .3 = \left((\text{-}210)^o = -\frac{7\,\pi}{6}\right) & .8 = \left((\text{-}510)^o = -\frac{17\,\pi}{6}\right) \\ .4 = \left(300^o = \frac{5\,\pi}{3}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = ((\text{-}1080)^o = -6\,\pi) & .10 = \left(\left(\frac{720}{\pi}\right)^o = 4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Csc}(\theta) = -\frac{7\sqrt{33}}{33}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\text{Csc}(\theta) = -\frac{\sqrt{26}}{5}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sec}(\theta) + \text{Csc}(\theta) = \frac{3\sqrt{5}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Cot}(\theta) - \text{Cos}(\theta) = \frac{-32}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Sec}(\theta) - \text{Cot}(\theta) = -\frac{5\sqrt{3}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.9449

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{46\pi}{3} = 2760^{o}\right) \\ .2 = \left(-\frac{4\pi}{3} = (-240)^{o}\right) & .7 = \left(\frac{49\pi}{6} = 1470^{o}\right) \\ .3 = \left(-\frac{11\pi}{6} = (-330)^{o}\right) & .8 = \left(\frac{45\pi}{4} = 2025^{o}\right) \\ .4 = \left(\frac{3\pi}{4} = 135^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{11\pi}{2} = 990^{o}\right) & .10 = (-1.5 = (-85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(2580^{o} = \frac{43\pi}{3}\right) \\ .2 = \left((-210)^{o} = -\frac{7\pi}{6}\right) & .7 = \left((-2370)^{o} = -\frac{79\pi}{6}\right) \\ .3 = \left(225^{o} = \frac{5\pi}{4}\right) & .8 = \left(2655^{o} = \frac{59\pi}{4}\right) \\ .4 = \left(120^{o} = \frac{2\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = \left(1170^{o} = \frac{13\pi}{2}\right) & .10 = \left(\left(-\frac{630}{\pi}\right)^{o} = -3.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Tan}(\theta) = -\frac{4\sqrt{33}}{33}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\mathrm{Csc}(\theta) - \mathrm{Sec}(\theta) = -\frac{\sqrt{13}}{6}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Sin}(\theta) + \mathrm{Sec}(\theta) = -\frac{57\sqrt{113}}{904}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Tan}(\theta) + \mathrm{Sec}(\theta) = \frac{\sqrt{119}}{17}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = -\frac{11\sqrt{65}}{65}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9562

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(\frac{41\pi}{3} = 2460^o\right) \\ .2 = \left(-\frac{5\pi}{6} = (-150)^o\right) & .7 = \left(-\frac{71\pi}{6} = (-2130)^o\right) \\ .3 = \left(\frac{\pi}{4} = 45^o\right) & .8 = \left(-\frac{17\pi}{4} = (-765)^o\right) \\ .4 = \left(\frac{5\pi}{3} = 300^o\right) & .9 = (5 = 286.479^o) \\ .5 = \left(\frac{11\pi}{2} = 990^o\right) & .10 = (6.5 = 372.423^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left(1860^o = \frac{31\pi}{3}\right) \\ .2 = \left((-30)^o = -\frac{\pi}{6}\right) & .7 = \left(2310^o = \frac{77\pi}{6}\right) \\ .3 = \left((-225)^o = -\frac{5\pi}{4}\right) & .8 = \left(1035^o = \frac{23\pi}{4}\right) \\ .4 = \left(120^o = \frac{2\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = \left((-1170)^o = -\frac{13\pi}{2}\right) & .10 = \left(\left(-\frac{990}{\pi}\right)^o = -5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{11\sqrt{6}}{24}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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

$$Ans6 = \left[\mathrm{Sin}(\theta) - \mathrm{Sec}(\theta) = \frac{-37}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = -\frac{79\sqrt{55}}{440}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Cot}(\theta) + \mathrm{Sec}(\theta) = \frac{1}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9721

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{49\pi}{6} = 1470^{o}\right) \\ .2 = \left(-\frac{7\pi}{6} = (-210)^{o}\right) & .7 = \left(-\frac{27\pi}{4} = (-1215)^{o}\right) \\ .3 = \left(-\frac{2\pi}{3} = (-120)^{o}\right) & .8 = \left(\frac{11\pi}{3} = 660^{o}\right) \\ .4 = \left(-\frac{5\pi}{4} = (-225)^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(\frac{17\pi}{2} = 1530^{o}\right) & .10 = (-2.5 = (-143.239)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(1920^{o} = \frac{32\pi}{3}\right) \\ .2 = \left((-330)^{o} = -\frac{11\pi}{6}\right) & .7 = \left((-1755)^{o} = -\frac{39\pi}{4}\right) \\ .3 = \left(60^{o} = \frac{\pi}{3}\right) & .8 = \left((-570)^{o} = -\frac{19\pi}{6}\right) \\ .4 = \left((-135)^{o} = -\frac{3\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = (2880^{o} = 16\pi) & .10 = \left(\left(-\frac{900}{\pi}\right)^{o} = -5.000\right) \end{bmatrix}$$

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

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\mathrm{Csc}(\theta) = \frac{\sqrt{10}}{3}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Tan}(\theta) - \mathrm{Sec}(\theta) = -\frac{\sqrt{5}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\mathrm{Csc}(\theta) + \mathrm{Cos}(\theta) = \frac{39\sqrt{74}}{518}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Cos}(\theta) - \mathrm{Sin}(\theta) = \frac{5\sqrt{13}}{13}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9789

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{51\pi}{4} = (\text{-}2295)^{o}\right) \\ .2 = \left(-\frac{3\pi}{4} = (\text{-}135)^{o}\right) & .7 = \left(-\frac{14\pi}{3} = (\text{-}840)^{o}\right) \\ .3 = \left(\frac{7\pi}{6} = 210^{o}\right) & .8 = \left(-\frac{13\pi}{6} = (\text{-}390)^{o}\right) \\ .4 = \left(-\frac{5\pi}{3} = (\text{-}300)^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(-\frac{21\pi}{2} = (\text{-}1890)^{o}\right) & .10 = (\text{-}5.5 = (\text{-}315.127)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\pi}{2}\right) & .6 = \left(870^{o} = \frac{29\pi}{6}\right) \\ .2 = \left((\text{-}120)^{o} = -\frac{2\pi}{3}\right) & .7 = \left((\text{-}1740)^{o} = -\frac{29\pi}{3}\right) \\ .3 = \left(225^{o} = \frac{5\pi}{4}\right) & .8 = \left(1125^{o} = \frac{25\pi}{4}\right) \\ .4 = \left((\text{-}30)^{o} = -\frac{\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = \left(1350^{o} = \frac{15\pi}{2}\right) & .10 = \left(\left(-\frac{450}{\pi}\right)^{o} = \text{-}2.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\text{Sec}(\theta) - \text{Sin}(\theta) = \frac{49\sqrt{73}}{584}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Cos}(\theta) - \text{Sin}(\theta) = \frac{4\sqrt{34}}{17}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans8 = \left[\text{Sin}(\theta) + \text{Tan}(\theta) = \frac{21\sqrt{7}}{8}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9795

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{23\pi}{3} = (-1380)^{o}\right) \\ .2 = \left(\frac{\pi}{4} = 45^{o}\right) & .7 = \left(\frac{63\pi}{4} = 2835^{o}\right) \\ .3 = \left(\frac{4\pi}{3} = 240^{o}\right) & .8 = \left(\frac{91\pi}{6} = 2730^{o}\right) \\ .4 = \left(\frac{11\pi}{6} = 330^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(-\frac{21\pi}{2} = (-1890)^{o}\right) & .10 = (-5.5 = (-315.127)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(945^{o} = \frac{21\pi}{4}\right) \\ .2 = \left((-30)^{o} = -\frac{\pi}{6}\right) & .7 = \left(840^{o} = \frac{14\pi}{3}\right) \\ .3 = \left(120^{o} = \frac{2\pi}{3}\right) & .8 = \left(2490^{o} = \frac{83\pi}{6}\right) \\ .4 = \left(225^{o} = \frac{5\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = ((-1800)^{o} = -10\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^{o} = 2.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Csc}(\theta) + \mathrm{Cot}(\theta) = \frac{\sqrt{33}}{3}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = \frac{151\sqrt{6}}{264}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Tan}(\theta) - \mathrm{Sec}(\theta) = \frac{\sqrt{6}}{3}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) + \mathrm{Tan}(\theta) = -\frac{13\sqrt{91}}{30}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9839

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{23\,\pi}{4} = 1035^o\right) \\ .2 = \left(\frac{\pi}{4} = 45^o\right) & .7 = \left(\frac{20\,\pi}{3} = 1200^o\right) \\ .3 = \left(\frac{2\,\pi}{3} = 120^o\right) & .8 = \left(\frac{71\,\pi}{6} = 2130^o\right) \\ .4 = \left(\frac{\pi}{6} = 30^o\right) & .9 = (4 = 229.183^o) \\ .5 = \left(\frac{27\,\pi}{2} = 2430^o\right) & .10 = (-5.5 = (-315.127)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\,\pi}{2}\right) & .6 = \left((-945)^o = -\frac{21\,\pi}{4}\right) \\ .2 = \left((-240)^o = -\frac{4\,\pi}{3}\right) & .7 = \left((-2550)^o = -\frac{85\,\pi}{6}\right) \\ .3 = \left((-150)^o = -\frac{5\,\pi}{6}\right) & .8 = \left((-1860)^o = -\frac{31\,\pi}{3}\right) \\ .4 = \left(315^o = \frac{7\,\pi}{4}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^o = 0.500\right) \\ .5 = \left((-810)^o = -\frac{9\,\pi}{2}\right) & .10 = \left(\left(-\frac{630}{\pi}\right)^o = -3.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Cos}(\theta) = -\frac{2\sqrt{6}}{7}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\mathrm{Sin}(\theta) = -\frac{7\sqrt{2}}{10}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = \frac{101\sqrt{65}}{585}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cos}(\theta) - \mathrm{Csc}(\theta) = \frac{13\sqrt{10}}{10}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans8 = \left[\mathrm{Cos}(\theta) - \mathrm{Cot}(\theta) = \frac{4\sqrt{2}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^o\right) & .6 = \left(\frac{14\pi}{3} = 840^o\right) \\ .2 = \left(\frac{5\pi}{3} = 300^o\right) & .7 = \left(\frac{17\pi}{6} = 510^o\right) \\ .3 = \left(-\frac{\pi}{4} = (-45)^o\right) & .8 = \left(-\frac{43\pi}{4} = (-1935)^o\right) \\ .4 = \left(\frac{11\pi}{6} = 330^o\right) & .9 = (5 = 286.479^o) \\ .5 = \left(-\frac{25\pi}{2} = (-2250)^o\right) & .10 = (-4.5 = (-257.831)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^o = \pi) & .6 = \left((-1410)^o = -\frac{47\pi}{6}\right) \\ .2 = \left((-30)^o = -\frac{\pi}{6}\right) & .7 = \left(660^o = \frac{11\pi}{3}\right) \\ .3 = \left(225^o = \frac{5\pi}{4}\right) & .8 = \left(2475^o = \frac{55\pi}{4}\right) \\ .4 = \left((-120)^o = -\frac{2\pi}{3}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^o = 0.500\right) \\ .5 = ((-1440)^o = -8\pi) & .10 = \left(\left(\frac{720}{\pi}\right)^o = 4.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Cos}(\theta) - \mathrm{Sin}(\theta) = \frac{\sqrt{5}}{5}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Csc}(\theta) - \mathrm{Sec}(\theta) = -\frac{\sqrt{61}}{30}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Csc}(\theta) + \mathrm{Tan}(\theta) = \frac{\sqrt{5}}{10}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{38\pi}{3} = (\text{-}2280)^{o}\right) \\ .2 = \left(-\frac{2\pi}{3} = (\text{-}120)^{o}\right) & .7 = \left(-\frac{21\pi}{4} = (\text{-}945)^{o}\right) \\ .3 = \left(\frac{5\pi}{4} = 225^{o}\right) & .8 = \left(-\frac{41\pi}{6} = (\text{-}1230)^{o}\right) \\ .4 = \left(-\frac{\pi}{6} = (\text{-}30)^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(-\frac{9\pi}{2} = (\text{-}810)^{o}\right) & .10 = (\text{-}3.5 = (\text{-}200.535)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(2760^{o} = \frac{46\pi}{3}\right) \\ .2 = \left((\text{-}240)^{o} = -\frac{4\pi}{3}\right) & .7 = \left((\text{-}495)^{o} = -\frac{11\pi}{4}\right) \\ .3 = \left(315^{o} = \frac{7\pi}{4}\right) & .8 = \left((\text{-}690)^{o} = -\frac{23\pi}{6}\right) \\ .4 = \left((\text{-}210)^{o} = -\frac{7\pi}{6}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = (1800^{o} = 10\pi) & .10 = \left(\left(\frac{540}{\pi}\right)^{o} = 3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Cos}(\theta) = -\frac{\sqrt{39}}{8}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\text{Csc}(\theta) + \text{Tan}(\theta) = \frac{149\sqrt{105}}{420}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\text{Cot}(\theta) + \text{Sec}(\theta) = -\frac{19\sqrt{11}}{55}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.9862

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(\frac{79\,\pi}{6} = 2370^o\right) \\ .2 = \left(-\frac{7\,\pi}{4} = (\text{-}315)^o\right) & .7 = \left(-\frac{10\,\pi}{3} = (\text{-}600)^o\right) \\ .3 = \left(\frac{7\,\pi}{6} = 210^o\right) & .8 = \left(-\frac{41\,\pi}{4} = (\text{-}1845)^o\right) \\ .4 = \left(\frac{4\,\pi}{3} = 240^o\right) & .9 = (6 = 343.775^o) \\ .5 = \left(-\frac{11\,\pi}{2} = (\text{-}990)^o\right) & .10 = (\text{-}0.5 = (\text{-}28.648)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^o = \pi) & .6 = \left(1410^o = \frac{47\,\pi}{6}\right) \\ .2 = \left((\text{-}150)^o = -\frac{5\,\pi}{6}\right) & .7 = \left((\text{-}1305)^o = -\frac{29\,\pi}{4}\right) \\ .3 = \left((\text{-}225)^o = -\frac{5\,\pi}{4}\right) & .8 = \left(1200^o = \frac{20\,\pi}{3}\right) \\ .4 = \left(300^o = \frac{5\,\pi}{3}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = ((\text{-}1080)^o = -6\,\pi) & .10 = \left(\left(-\frac{990}{\pi}\right)^o = \text{-}5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Sin}(\theta) = -\frac{2\sqrt{6}}{5}\right)\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\text{Sin}(\theta) + \text{Cot}(\theta) = \frac{11\sqrt{2}}{12}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Tan}(\theta) + \text{Sec}(\theta) = \frac{\sqrt{6}}{3}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Csc}(\theta) + \text{Sec}(\theta) = \frac{\sqrt{61}}{30}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.10278

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{9\pi}{4} = 405^{o}\right) \\ .2 = \left(-\frac{4\pi}{3} = (-240)^{o}\right) & .7 = \left(\frac{91\pi}{6} = 2730^{o}\right) \\ .3 = \left(\frac{3\pi}{4} = 135^{o}\right) & .8 = \left(\frac{34\pi}{3} = 2040^{o}\right) \\ .4 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .9 = (6 = 343.775^{o}) \\ .5 = \left(\frac{29\pi}{2} = 2610^{o}\right) & .10 = (3.5 = 200.535^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(2655^{o} = \frac{59\pi}{4}\right) \\ .2 = \left((-45)^{o} = -\frac{\pi}{4}\right) & .7 = \left((-1050)^{o} = -\frac{35\pi}{6}\right) \\ .3 = \left(210^{o} = \frac{7\pi}{6}\right) & .8 = \left(420^{o} = \frac{7\pi}{3}\right) \\ .4 = \left((-300)^{o} = -\frac{5\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = (720^{o} = 4\pi) & .10 = \left(\left(\frac{720}{\pi}\right)^{o} = 4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{4\sqrt{15}}{15}\right)\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\mathrm{Sin}(\theta) = -\frac{4\sqrt{17}}{17}\right]\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\mathrm{Tan}(\theta) - \mathrm{Csc}(\theta) = \frac{31\sqrt{5}}{30}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\mathrm{Sec}(\theta) - \mathrm{Csc}(\theta) = -\frac{11\sqrt{73}}{24}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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

$$Ans8 = \left[\mathrm{Sec}(\theta) - \mathrm{Cot}(\theta) = -\frac{61\sqrt{33}}{132}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.10361

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{16\pi}{3} = 960^{o}\right) \\ .2 = \left(\frac{\pi}{3} = 60^{o}\right) & .7 = \left(\frac{59\pi}{6} = 1770^{o}\right) \\ .3 = \left(\frac{3\pi}{4} = 135^{o}\right) & .8 = \left(\frac{39\pi}{4} = 1755^{o}\right) \\ .4 = \left(-\frac{5\pi}{6} = (-150)^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(-\frac{29\pi}{2} = (-2610)^{o}\right) & .10 = (4.5 = 257.831^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(510^{o} = \frac{17\pi}{6}\right) \\ .2 = \left(120^{o} = \frac{2\pi}{3}\right) & .7 = \left(1665^{o} = \frac{37\pi}{4}\right) \\ .3 = \left(210^{o} = \frac{7\pi}{6}\right) & .8 = \left(480^{o} = \frac{8\pi}{3}\right) \\ .4 = \left(225^{o} = \frac{5\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = \left(2790^{o} = \frac{31\pi}{2}\right) & .10 = \left(\left(\frac{630}{\pi}\right)^{o} = 3.500\right) \end{bmatrix}$$

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

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\mathrm{Sec}(\theta) = \frac{\sqrt{26}}{5}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Cot}(\theta) + \mathrm{Sec}(\theta) = \frac{59\sqrt{6}}{60}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = -\frac{95\sqrt{77}}{693}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) + \mathrm{Sec}(\theta) = -\frac{21\sqrt{41}}{205}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.10532

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{77\pi}{6} = (-2310)^o\right) \\ .2 = \left(\frac{5\pi}{3} = 300^o\right) & .7 = \left(-\frac{46\pi}{3} = (-2760)^o\right) \\ .3 = \left(\frac{\pi}{6} = 30^o\right) & .8 = \left(\frac{9\pi}{4} = 405^o\right) \\ .4 = \left(-\frac{7\pi}{4} = (-315)^o\right) & .9 = (2 = 114.592^o) \\ .5 = \left(-\frac{25\pi}{2} = (-2250)^o\right) & .10 = (1.5 = 85.944^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left((-1575)^o = -\frac{35\pi}{4}\right) \\ .2 = \left((-210)^o = -\frac{7\pi}{6}\right) & .7 = \left((-660)^o = -\frac{11\pi}{3}\right) \\ .3 = \left((-240)^o = -\frac{4\pi}{3}\right) & .8 = \left(2130^o = \frac{71\pi}{6}\right) \\ .4 = \left((-45)^o = -\frac{\pi}{4}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^o = 1.500\right) \\ .5 = \left((-2790)^o = -\frac{31\pi}{2}\right) & .10 = \left(\left(\frac{540}{\pi}\right)^o = 3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Sec}(\theta) = -\frac{8\sqrt{55}}{55}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\text{Sin}(\theta) = -\frac{\sqrt{26}}{26}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sin}(\theta) + \text{Cos}(\theta) = \frac{5\sqrt{17}}{17}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Tan}(\theta) - \text{Sec}(\theta) = \frac{\sqrt{91}}{13}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Csc}(\theta) - \text{Sec}(\theta) = \frac{3\sqrt{65}}{28}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Cos}(\theta) + \text{Cot}(\theta) = -\frac{5\sqrt{35}}{6}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.10688

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{17\,\pi}{6} = (\text{-}510)^{o}\right) \\ .2 = \left(\frac{7\,\pi}{4} = 315^{o}\right) & .7 = \left(-\frac{35\,\pi}{3} = (\text{-}2100)^{o}\right) \\ .3 = \left(-\frac{7\,\pi}{6} = (\text{-}210)^{o}\right) & .8 = \left(-\frac{31\,\pi}{4} = (\text{-}1395)^{o}\right) \\ .4 = \left(\frac{\pi}{3} = 60^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(\frac{5\,\pi}{2} = 450^{o}\right) & .10 = (\text{-}4.5 = (\text{-}257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((\text{-}1575)^{o} = -\frac{35\,\pi}{4}\right) \\ .2 = \left((\text{-}330)^{o} = -\frac{11\,\pi}{6}\right) & .7 = \left((\text{-}1050)^{o} = -\frac{35\,\pi}{6}\right) \\ .3 = \left(45^{o} = \frac{\pi}{4}\right) & .8 = \left(840^{o} = \frac{14\,\pi}{3}\right) \\ .4 = \left((\text{-}240)^{o} = -\frac{4\,\pi}{3}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = \left(630^{o} = \frac{7\,\pi}{2}\right) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = \text{-}3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Tan}(\theta) = -\frac{\sqrt{7}}{21}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\mathrm{Sin}(\theta) = -\frac{\sqrt{10}}{10}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Csc}(\theta) - \mathrm{Tan}(\theta) = -\frac{5\sqrt{2}}{4}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\mathrm{Sin}(\theta) - \mathrm{Cot}(\theta) = \frac{5\sqrt{3}}{6}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.10868

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{55\pi}{6} = (-1650)^{o}\right) \\ .2 = \left(-\frac{11\pi}{6} = (-330)^{o}\right) & .7 = \left(\frac{32\pi}{3} = 1920^{o}\right) \\ .3 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .8 = \left(-\frac{33\pi}{4} = (-1485)^{o}\right) \\ .4 = \left(-\frac{2\pi}{3} = (-120)^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(\frac{23\pi}{2} = 2070^{o}\right) & .10 = (0.5 = 28.648^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(2550^{o} = \frac{85\pi}{6}\right) \\ .2 = \left((-210)^{o} = -\frac{7\pi}{6}\right) & .7 = \left(780^{o} = \frac{13\pi}{3}\right) \\ .3 = \left(60^{o} = \frac{\pi}{3}\right) & .8 = \left(585^{o} = \frac{13\pi}{4}\right) \\ .4 = \left(225^{o} = \frac{5\pi}{4}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = ((-1440)^{o} = -8\pi) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = -3.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\text{Sin}(\theta) - \text{Sec}(\theta) = -\frac{\sqrt{2}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Csc}(\theta) + \text{Cot}(\theta) = \frac{\sqrt{10}}{5}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Sec}(\theta) - \text{Cot}(\theta) = -\frac{179\sqrt{119}}{595}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Csc}(\theta) + \text{Sec}(\theta) = \frac{\sqrt{61}}{30}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.10900

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(\frac{85\,\pi}{6} = 2550^{o}\right) \\ .2 = \left(-\frac{7\,\pi}{4} = (\text{-}315)^{o}\right) & .7 = \left(-\frac{29\,\pi}{4} = (\text{-}1305)^{o}\right) \\ .3 = \left(\frac{\pi}{6} = 30^{o}\right) & .8 = \left(\frac{44\,\pi}{3} = 2640^{o}\right) \\ .4 = \left(\frac{5\,\pi}{3} = 300^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(-\frac{27\,\pi}{2} = (\text{-}2430)^{o}\right) & .10 = (\text{-}1.5 = (\text{-}85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(2730^{o} = \frac{91\,\pi}{6}\right) \\ .2 = \left(225^{o} = \frac{5\,\pi}{4}\right) & .7 = \left(1125^{o} = \frac{25\,\pi}{4}\right) \\ .3 = \left((\text{-}120)^{o} = -\frac{2\,\pi}{3}\right) & .8 = \left(1020^{o} = \frac{17\,\pi}{3}\right) \\ .4 = \left(210^{o} = \frac{7\,\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((\text{-}1440)^{o} = -8\,\pi) & .10 = \left(\left(\frac{720}{\pi}\right)^{o} = 4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Cot}(\theta) = -\frac{5\sqrt{119}}{119}\right)\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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

$$Ans5 = \left[\text{Tan}(\theta) - \text{Cos}(\theta) = -\frac{5\sqrt{33}}{231}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\text{Sin}(\theta) - \text{Cot}(\theta) = -\frac{11\sqrt{21}}{105}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\text{Csc}(\theta) + \text{Sec}(\theta) = -\frac{\sqrt{13}}{6}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\text{Tan}(\theta) - \text{Sin}(\theta) = \frac{5\sqrt{15}}{4}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.11693

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{25\pi}{3} = (-1500)^o\right) \\ .2 = \left(-\frac{5\pi}{4} = (-225)^o\right) & .7 = \left(-\frac{9\pi}{4} = (-405)^o\right) \\ .3 = \left(\frac{\pi}{3} = 60^o\right) & .8 = \left(-\frac{53\pi}{6} = (-1590)^o\right) \\ .4 = \left(-\frac{\pi}{6} = (-30)^o\right) & .9 = (6 = 343.775^o) \\ .5 = \left(-\frac{25\pi}{2} = (-2250)^o\right) & .10 = (-1.5 = (-85.944)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left(1680^o = \frac{28\pi}{3}\right) \\ .2 = \left((-300)^o = -\frac{5\pi}{3}\right) & .7 = \left((-2370)^o = -\frac{79\pi}{6}\right) \\ .3 = \left(45^o = \frac{\pi}{4}\right) & .8 = \left(2835^o = \frac{63\pi}{4}\right) \\ .4 = \left((-150)^o = -\frac{5\pi}{6}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^o = 0.500\right) \\ .5 = \left(2070^o = \frac{23\pi}{2}\right) & .10 = \left(\left(\frac{450}{\pi}\right)^o = 2.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = \frac{61\sqrt{33}}{231}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\mathrm{Cos}(\theta) - \mathrm{Csc}(\theta) = \frac{13}{20}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = \frac{3\sqrt{65}}{65}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\mathrm{Cot}(\theta) - \mathrm{Sin}(\theta) = -\frac{31\sqrt{21}}{105}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.12097

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^o\right) & .6 = \left(\frac{32\pi}{3} = 1920^o\right) \\ .2 = \left(-\frac{7\pi}{4} = (\text{-}315)^o\right) & .7 = \left(\frac{25\pi}{6} = 750^o\right) \\ .3 = \left(-\frac{4\pi}{3} = (\text{-}240)^o\right) & .8 = \left(-\frac{39\pi}{4} = (\text{-}1755)^o\right) \\ .4 = \left(-\frac{\pi}{6} = (\text{-}30)^o\right) & .9 = (1 = 57.296^o) \\ .5 = \left(-\frac{5\pi}{2} = (\text{-}450)^o\right) & .10 = (\text{-}3.5 = (\text{-}200.535)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left(495^o = \frac{11\pi}{4}\right) \\ .2 = \left((\text{-}120)^o = -\frac{2\pi}{3}\right) & .7 = \left(690^o = \frac{23\pi}{6}\right) \\ .3 = \left((\text{-}330)^o = -\frac{11\pi}{6}\right) & .8 = \left(1140^o = \frac{19\pi}{3}\right) \\ .4 = \left((\text{-}225)^o = -\frac{5\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = (2520^o = 14\pi) & .10 = \left(\left(\frac{900}{\pi}\right)^o = 5.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Cot}(\theta) = -\frac{\sqrt{33}}{4}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\text{Cot}(\theta) - \text{Sec}(\theta) = \frac{19\sqrt{10}}{60}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Sec}(\theta) - \text{Tan}(\theta) = -\frac{2\sqrt{6}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Csc}(\theta) - \text{Cos}(\theta) = \frac{109\sqrt{74}}{518}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Cot}(\theta) - \text{Sec}(\theta) = -\frac{19\sqrt{15}}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.12172

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{40\pi}{3} = 2400^{o}\right) \\ .2 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .7 = \left(-\frac{37\pi}{6} = (-1110)^{o}\right) \\ .3 = \left(\frac{2\pi}{3} = 120^{o}\right) & .8 = \left(\frac{13\pi}{4} = 585^{o}\right) \\ .4 = \left(\frac{11\pi}{6} = 330^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{31\pi}{2} = 2790^{o}\right) & .10 = (-2.5 = (-143.239)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(1200^{o} = \frac{20\pi}{3}\right) \\ .2 = \left(60^{o} = \frac{\pi}{3}\right) & .7 = \left(1230^{o} = \frac{41\pi}{6}\right) \\ .3 = \left(150^{o} = \frac{5\pi}{6}\right) & .8 = \left(2835^{o} = \frac{63\pi}{4}\right) \\ .4 = \left(225^{o} = \frac{5\pi}{4}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((-2520)^{o} = -14\pi) & .10 = \left(\left(-\frac{900}{\pi}\right)^{o} = -5.000\right) \end{bmatrix}$$

$$Ans3 = [.1 = [Quadrant = Q2], .2 = (\mathrm{Cot}(\theta) = -\sqrt{3})], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\mathrm{Csc}(\theta) = \frac{\sqrt{37}}{6}\right]\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\mathrm{Tan}(\theta) - \mathrm{Sin}(\theta) = \frac{8\sqrt{6}}{5}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\mathrm{Sin}(\theta) + \mathrm{Cot}(\theta) = -\frac{\sqrt{5}}{15}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\mathrm{Cos}(\theta) - \mathrm{Csc}(\theta) = \frac{49\sqrt{73}}{219}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\mathrm{Cos}(\theta) - \mathrm{Sin}(\theta) = \frac{15\sqrt{113}}{113}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.12173

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(\frac{37\pi}{6} = 1110^{o}\right) \\ .2 = \left(-\frac{11\pi}{6} = (-330)^{o}\right) & .7 = \left(\frac{37\pi}{3} = 2220^{o}\right) \\ .3 = \left(-\frac{4\pi}{3} = (-240)^{o}\right) & .8 = \left(-\frac{9\pi}{4} = (-405)^{o}\right) \\ .4 = \left(\frac{5\pi}{4} = 225^{o}\right) & .9 = (7 = 401.070^{o}) \\ .5 = \left(-\frac{19\pi}{2} = (-1710)^{o}\right) & .10 = (4.5 = 257.831^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\pi}{2}\right) & .6 = \left((-2280)^{o} = -\frac{38\pi}{3}\right) \\ .2 = \left((-300)^{o} = -\frac{5\pi}{3}\right) & .7 = \left((-1770)^{o} = -\frac{59\pi}{6}\right) \\ .3 = \left(30^{o} = \frac{\pi}{6}\right) & .8 = \left(1935^{o} = \frac{43\pi}{4}\right) \\ .4 = \left(315^{o} = \frac{7\pi}{4}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = ((-1080)^{o} = -6\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^{o} = 2.500\right) \end{bmatrix}$$

$$Ans3 = [.1 = [Quadrant = Q4], .2 = (\mathrm{Tan}(\theta) = -2\sqrt{6})], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\mathrm{Sec}(\theta) = -\frac{\sqrt{37}}{6}\right]\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = \frac{5\sqrt{3}}{6}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = -\frac{3\sqrt{17}}{17}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = -\frac{9\sqrt{53}}{53}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\mathrm{Tan}(\theta) + \mathrm{Sec}(\theta) = \frac{\sqrt{6}}{3}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.12180

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{7\pi}{3} = 420^o\right) \\ .2 = \left(-\frac{\pi}{4} = (-45)^o\right) & .7 = \left(\frac{43\pi}{6} = 1290^o\right) \\ .3 = \left(\frac{11\pi}{6} = 330^o\right) & .8 = \left(\frac{27\pi}{4} = 1215^o\right) \\ .4 = \left(-\frac{\pi}{3} = (-60)^o\right) & .9 = (7 = 401.070^o) \\ .5 = \left(\frac{27\pi}{2} = 2430^o\right) & .10 = (6.5 = 372.423^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left(2670^o = \frac{89\pi}{6}\right) \\ .2 = \left(240^o = \frac{4\pi}{3}\right) & .7 = \left(2820^o = \frac{47\pi}{3}\right) \\ .3 = \left((-315)^o = -\frac{7\pi}{4}\right) & .8 = \left(1395^o = \frac{31\pi}{4}\right) \\ .4 = \left(30^o = \frac{\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = (2520^o = 14\pi) & .10 = \left(\left(-\frac{990}{\pi}\right)^o = -5.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Cos}(\theta) - \mathrm{Sin}(\theta) = \frac{2\sqrt{58}}{29}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Tan}(\theta) + \mathrm{Sec}(\theta) = -\frac{\sqrt{21}}{7}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = -\frac{59\sqrt{6}}{84}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Csc}(\theta) + \mathrm{Cos}(\theta) = -\frac{21\sqrt{41}}{205}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.12256

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{17\pi}{4} = (\text{-}765)^{o}\right) \\ .2 = \left(\frac{\pi}{6} = 30^{o}\right) & .7 = \left(-\frac{20\pi}{3} = (\text{-}1200)^{o}\right) \\ .3 = \left(-\frac{3\pi}{4} = (\text{-}135)^{o}\right) & .8 = \left(\frac{17\pi}{6} = 510^{o}\right) \\ .4 = \left(\frac{2\pi}{3} = 120^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(\frac{31\pi}{2} = 2790^{o}\right) & .10 = (\text{-}4.5 = (\text{-}257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\pi}{2}\right) & .6 = \left((\text{-}2490)^{o} = -\frac{83\pi}{6}\right) \\ .2 = \left(225^{o} = \frac{5\pi}{4}\right) & .7 = \left(855^{o} = \frac{19\pi}{4}\right) \\ .3 = \left(330^{o} = \frac{11\pi}{6}\right) & .8 = \left((\text{-}2040)^{o} = -\frac{34\pi}{3}\right) \\ .4 = \left((\text{-}60)^{o} = -\frac{\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((\text{-}1800)^{o} = -10\pi) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = \text{-}3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Cos}(\theta) = -\frac{\sqrt{7}}{4}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\text{Sin}(\theta) = -\frac{\sqrt{37}}{37}\right] \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans6 = \left[\text{Sec}(\theta) - \text{Cot}(\theta) = -\frac{79\sqrt{39}}{195}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Cot}(\theta) - \text{Cos}(\theta) = -\frac{12\sqrt{6}}{5}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.12278

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{41\pi}{6} = (-1230)^o\right) \\ .2 = \left(\frac{11\pi}{6} = 330^o\right) & .7 = \left(-\frac{37\pi}{3} = (-2220)^o\right) \\ .3 = \left(\frac{7\pi}{4} = 315^o\right) & .8 = \left(\frac{39\pi}{4} = 1755^o\right) \\ .4 = \left(\frac{4\pi}{3} = 240^o\right) & .9 = (3 = 171.887^o) \\ .5 = \left(\frac{15\pi}{2} = 1350^o\right) & .10 = (3.5 = 200.535^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((-2550)^o = -\frac{85\pi}{6}\right) \\ .2 = \left(120^o = \frac{2\pi}{3}\right) & .7 = \left(1020^o = \frac{17\pi}{3}\right) \\ .3 = \left((-225)^o = -\frac{5\pi}{4}\right) & .8 = \left((-495)^o = -\frac{11\pi}{4}\right) \\ .4 = \left(150^o = \frac{5\pi}{6}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^o = 0.500\right) \\ .5 = ((-720)^o = -4\pi) & .10 = \left(\left(-\frac{810}{\pi}\right)^o = -4.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sin}(\theta) + \mathrm{Sec}(\theta) = \frac{127\sqrt{85}}{510}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\mathrm{Sin}(\theta) - \mathrm{Tan}(\theta) = -\frac{5\sqrt{15}}{4}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = \frac{41\sqrt{3}}{84}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.12482

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(\frac{35\,\pi}{4} = 1575^o\right) \\ .2 = \left(-\frac{5\,\pi}{3} = (-300)^o\right) & .7 = \left(-\frac{13\,\pi}{3} = (-780)^o\right) \\ .3 = \left(-\frac{5\,\pi}{6} = (-150)^o\right) & .8 = \left(-\frac{55\,\pi}{6} = (-1650)^o\right) \\ .4 = \left(-\frac{\pi}{4} = (-45)^o\right) & .9 = (3 = 171.887^o) \\ .5 = \left(-\frac{21\,\pi}{2} = (-1890)^o\right) & .10 = (-2.5 = (-143.239)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^o = \pi) & .6 = \left((-2550)^o = -\frac{85\,\pi}{6}\right) \\ .2 = \left(135^o = \frac{3\,\pi}{4}\right) & .7 = \left(1845^o = \frac{41\,\pi}{4}\right) \\ .3 = \left(330^o = \frac{11\,\pi}{6}\right) & .8 = \left((-840)^o = -\frac{14\,\pi}{3}\right) \\ .4 = \left(60^o = \frac{\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = ((-2880)^o = -16\,\pi) & .10 = \left(\left(-\frac{450}{\pi}\right)^o = -2.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\text{Sin}(\theta) - \text{Cot}(\theta) = \frac{19\sqrt{10}}{140}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = [\text{Sin}(\theta) + \text{Cos}(\theta) = 0], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Csc}(\theta) + \text{Tan}(\theta) = \frac{11\sqrt{21}}{42}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Cos}(\theta) - \text{Cot}(\theta) = \frac{5\sqrt{65}}{36}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.12586

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{8\pi}{3} = 480^o\right) \\ .2 = \left(-\frac{\pi}{3} = (-60)^o\right) & .7 = \left(-\frac{17\pi}{4} = (-765)^o\right) \\ .3 = \left(\frac{\pi}{4} = 45^o\right) & .8 = \left(\frac{19\pi}{6} = 570^o\right) \\ .4 = \left(\frac{11\pi}{6} = 330^o\right) & .9 = (1 = 57.296^o) \\ .5 = \left(\frac{9\pi}{2} = 810^o\right) & .10 = (0.5 = 28.648^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left((-1035)^o = -\frac{23\pi}{4}\right) \\ .2 = \left((-240)^o = -\frac{4\pi}{3}\right) & .7 = \left((-2040)^o = -\frac{34\pi}{3}\right) \\ .3 = \left((-210)^o = -\frac{7\pi}{6}\right) & .8 = \left((-1590)^o = -\frac{53\pi}{6}\right) \\ .4 = \left((-225)^o = -\frac{5\pi}{4}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^o = 0.500\right) \\ .5 = \left((-1710)^o = -\frac{19\pi}{2}\right) & .10 = \left(\left(\frac{720}{\pi}\right)^o = 4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Sec}(\theta) = -\frac{8\sqrt{7}}{21}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\mathrm{Sec}(\theta) = -\frac{\sqrt{37}}{6}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Csc}(\theta) - \mathrm{Cot}(\theta) = \frac{\sqrt{6}}{4}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\mathrm{Sin}(\theta) + \mathrm{Cot}(\theta) = -\frac{121\sqrt{91}}{910}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = [\mathrm{Tan}(\theta) - \mathrm{Sec}(\theta) = \sqrt{6}], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{16\pi}{3} = 960^o\right) \\ .2 = \left(\frac{2\pi}{3} = 120^o\right) & .7 = \left(\frac{77\pi}{6} = 2310^o\right) \\ .3 = \left(\frac{\pi}{6} = 30^o\right) & .8 = \left(\frac{49\pi}{4} = 2205^o\right) \\ .4 = \left(-\frac{5\pi}{4} = (-225)^o\right) & .9 = (2 = 114.592^o) \\ .5 = \left(\frac{7\pi}{2} = 630^o\right) & .10 = (1.5 = 85.944^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((-2190)^o = -\frac{73\pi}{6}\right) \\ .2 = \left(135^o = \frac{3\pi}{4}\right) & .7 = \left(2280^o = \frac{38\pi}{3}\right) \\ .3 = \left((-60)^o = -\frac{\pi}{3}\right) & .8 = \left((-1935)^o = -\frac{43\pi}{4}\right) \\ .4 = \left((-210)^o = -\frac{7\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^o = 1.500\right) \\ .5 = \left((-450)^o = -\frac{5\pi}{2}\right) & .10 = \left(\left(-\frac{630}{\pi}\right)^o = -3.500\right) \end{bmatrix}$$

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

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\text{Cos}(\theta) = -\frac{\sqrt{2}}{10}\right] \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sin}(\theta) + \text{Cot}(\theta) = \frac{5\sqrt{3}}{6}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\text{Tan}(\theta) - \text{Sin}(\theta) = -\frac{7\sqrt{119}}{60}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Sin}(\theta) + \text{Cos}(\theta) = -\frac{5\sqrt{17}}{17}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.13490

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^o\right) & .6 = \left(\frac{23\pi}{6} = 690^o\right) \\ .2 = \left(\frac{5\pi}{6} = 150^o\right) & .7 = \left(-\frac{41\pi}{4} = (-1845)^o\right) \\ .3 = \left(-\frac{3\pi}{4} = (-135)^o\right) & .8 = \left(\frac{11\pi}{3} = 660^o\right) \\ .4 = \left(\frac{2\pi}{3} = 120^o\right) & .9 = (5 = 286.479^o) \\ .5 = \left(-\frac{11\pi}{2} = (-990)^o\right) & .10 = (-6.5 = (-372.423)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^o = \pi) & .6 = \left((-1950)^o = -\frac{65\pi}{6}\right) \\ .2 = \left((-240)^o = -\frac{4\pi}{3}\right) & .7 = \left((-780)^o = -\frac{13\pi}{3}\right) \\ .3 = \left((-30)^o = -\frac{\pi}{6}\right) & .8 = \left((-585)^o = -\frac{13\pi}{4}\right) \\ .4 = \left(45^o = \frac{\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = (1440^o = 8\pi) & .10 = \left(\left(\frac{630}{\pi}\right)^o = 3.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Tan}(\theta) - \mathrm{Sin}(\theta) = \frac{8\sqrt{14}}{45}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Sec}(\theta) - \mathrm{Sin}(\theta) = -\frac{7\sqrt{10}}{30}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cot}(\theta) - \mathrm{Sec}(\theta) = -\frac{61\sqrt{105}}{420}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Csc}(\theta) + \mathrm{Tan}(\theta) = -\frac{19\sqrt{15}}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.13500

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^o\right) & .6 = \left(\frac{41\pi}{6} = 1230^o\right) \\ .2 = \left(-\frac{\pi}{3} = (-60)^o\right) & .7 = \left(\frac{23\pi}{3} = 1380^o\right) \\ .3 = \left(-\frac{\pi}{4} = (-45)^o\right) & .8 = \left(-\frac{39\pi}{4} = (-1755)^o\right) \\ .4 = \left(-\frac{\pi}{6} = (-30)^o\right) & .9 = (5 = 286.479^o) \\ .5 = \left(-\frac{9\pi}{2} = (-810)^o\right) & .10 = (-1.5 = (-85.944)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^o = \pi) & .6 = \left(1410^o = \frac{47\pi}{6}\right) \\ .2 = \left((-135)^o = -\frac{3\pi}{4}\right) & .7 = \left((-405)^o = -\frac{9\pi}{4}\right) \\ .3 = \left(240^o = \frac{4\pi}{3}\right) & .8 = \left(2280^o = \frac{38\pi}{3}\right) \\ .4 = \left((-150)^o = -\frac{5\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = \left((-2790)^o = -\frac{31\pi}{2}\right) & .10 = \left(\left(-\frac{990}{\pi}\right)^o = -5.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Csc}(\theta) + \mathrm{Sec}(\theta) = \frac{7\sqrt{29}}{10}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cot}(\theta) + \mathrm{Sec}(\theta) = -\frac{61\sqrt{10}}{60}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = -\frac{11\sqrt{2}}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) - \mathrm{Tan}(\theta) = \frac{-27}{20}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{23\pi}{4} = (-1035)^{o}\right) \\ .2 = \left(-\frac{11\pi}{6} = (-330)^{o}\right) & .7 = \left(-\frac{19\pi}{3} = (-1140)^{o}\right) \\ .3 = \left(\frac{4\pi}{3} = 240^{o}\right) & .8 = \left(\frac{31\pi}{6} = 930^{o}\right) \\ .4 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .9 = (7 = 401.070^{o}) \\ .5 = \left(-\frac{13\pi}{2} = (-1170)^{o}\right) & .10 = (2.5 = 143.239^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(855^{o} = \frac{19\pi}{4}\right) \\ .2 = \left(150^{o} = \frac{5\pi}{6}\right) & .7 = \left((-2280)^{o} = -\frac{38\pi}{3}\right) \\ .3 = \left(225^{o} = \frac{5\pi}{4}\right) & .8 = \left(1230^{o} = \frac{41\pi}{6}\right) \\ .4 = \left((-60)^{o} = -\frac{\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = (720^{o} = 4\pi) & .10 = \left(\left(-\frac{810}{\pi}\right)^{o} = -4.500\right) \end{bmatrix}$$

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

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

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

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

$$Ans7 = \left[\text{Cot}(\theta) - \text{Sin}(\theta) = \frac{121\sqrt{91}}{910}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Sin}(\theta) + \text{Tan}(\theta) = -\frac{3\sqrt{3}}{2}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645101

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(\frac{13\pi}{4} = 585^o\right) \\ .2 = \left(\frac{\pi}{4} = 45^o\right) & .7 = \left(-\frac{20\pi}{3} = (-1200)^o\right) \\ .3 = \left(\frac{11\pi}{6} = 330^o\right) & .8 = \left(\frac{95\pi}{6} = 2850^o\right) \\ .4 = \left(\frac{2\pi}{3} = 120^o\right) & .9 = (5 = 286.479^o) \\ .5 = \left(\frac{21\pi}{2} = 1890^o\right) & .10 = (5.5 = 315.127^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left((-1380)^o = -\frac{23\pi}{3}\right) \\ .2 = \left(150^o = \frac{5\pi}{6}\right) & .7 = \left(1650^o = \frac{55\pi}{6}\right) \\ .3 = \left((-135)^o = -\frac{3\pi}{4}\right) & .8 = \left((-855)^o = -\frac{19\pi}{4}\right) \\ .4 = \left(300^o = \frac{5\pi}{3}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^o = 0.500\right) \\ .5 = \left((-630)^o = -\frac{7\pi}{2}\right) & .10 = \left(\left(-\frac{900}{\pi}\right)^o = -5.000\right) \end{bmatrix}$$

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

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\mathrm{Cos}(\theta) = -\frac{7\sqrt{2}}{10}\right]\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Tan}(\theta) - \mathrm{Sec}(\theta) = -\frac{\sqrt{33}}{11}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Csc}(\theta) - \mathrm{Sec}(\theta) = \frac{5\sqrt{13}}{6}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cos}(\theta) - \mathrm{Tan}(\theta) = \frac{71\sqrt{7}}{168}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Csc}(\theta) - \mathrm{Cos}(\theta) = -\frac{31\sqrt{61}}{366}\right], \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645102

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(\frac{59\,\pi}{4} = 2655^{o}\right) \\ .2 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .7 = \left(\frac{40\,\pi}{3} = 2400^{o}\right) \\ .3 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .8 = \left(\frac{55\,\pi}{6} = 1650^{o}\right) \\ .4 = \left(-\frac{2\,\pi}{3} = (-120)^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(-\frac{25\,\pi}{2} = (-2250)^{o}\right) & .10 = (-2.5 = (-143.239)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left(1950^{o} = \frac{65\,\pi}{6}\right) \\ .2 = \left(60^{o} = \frac{\pi}{3}\right) & .7 = \left((-2460)^{o} = -\frac{41\,\pi}{3}\right) \\ .3 = \left(225^{o} = \frac{5\,\pi}{4}\right) & .8 = \left(2475^{o} = \frac{55\,\pi}{4}\right) \\ .4 = \left(330^{o} = \frac{11\,\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = (720^{o} = 4\,\pi) & .10 = \left(\left(-\frac{720}{\pi}\right)^{o} = -4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Cos}(\theta) = -\frac{\sqrt{55}}{8}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\mathrm{Sec}(\theta) = -\frac{5\sqrt{2}}{7}\right] \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Cos}(\theta) - \mathrm{Csc}(\theta) = -\frac{7\sqrt{10}}{10}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\mathrm{Cot}(\theta) - \mathrm{Sin}(\theta) = -\frac{19\sqrt{15}}{60}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) - \mathrm{Tan}(\theta) = -\frac{\sqrt{33}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645103

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{67\pi}{6} = 2010^o\right) \\ .2 = \left(-\frac{\pi}{6} = (-30)^o\right) & .7 = \left(\frac{13\pi}{3} = 780^o\right) \\ .3 = \left(\frac{2\pi}{3} = 120^o\right) & .8 = \left(-\frac{17\pi}{4} = (-765)^o\right) \\ .4 = \left(\frac{5\pi}{4} = 225^o\right) & .9 = (7 = 401.070^o) \\ .5 = \left(-\frac{13\pi}{2} = (-1170)^o\right) & .10 = (0.5 = 28.648^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((-1755)^o = -\frac{39\pi}{4}\right) \\ .2 = \left(300^o = \frac{5\pi}{3}\right) & .7 = \left((-2310)^o = -\frac{77\pi}{6}\right) \\ .3 = \left((-210)^o = -\frac{7\pi}{6}\right) & .8 = \left((-960)^o = -\frac{16\pi}{3}\right) \\ .4 = \left(315^o = \frac{7\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = ((-1440)^o = -8\pi) & .10 = \left(\left(\frac{810}{\pi}\right)^o = 4.500\right) \end{bmatrix}$$

$$Ans3 = [.1 = [Quadrant = Q4], .2 = (\mathrm{Tan}(\theta) = -\sqrt{15})], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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

$$Ans5 = \left[\mathrm{Sec}(\theta) - \mathrm{Tan}(\theta) = \frac{\sqrt{5}}{3}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\mathrm{Sec}(\theta) - \mathrm{Tan}(\theta) = -\frac{\sqrt{21}}{3}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\mathrm{Sin}(\theta) + \mathrm{Cot}(\theta) = -\frac{121\sqrt{91}}{910}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(\frac{17\,\pi}{6} = 510^{o}\right) \\ .2 = \left(-\frac{\pi}{4} = (\text{-}45)^{o}\right) & .7 = \left(\frac{33\,\pi}{4} = 1485^{o}\right) \\ .3 = \left(\frac{5\,\pi}{6} = 150^{o}\right) & .8 = \left(\frac{43\,\pi}{3} = 2580^{o}\right) \\ .4 = \left(\frac{2\,\pi}{3} = 120^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(-\frac{31\,\pi}{2} = (\text{-}2790)^{o}\right) & .10 = (\text{-}2.5 = (\text{-}143.239)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left(1770^{o} = \frac{59\,\pi}{6}\right) \\ .2 = \left(60^{o} = \frac{\pi}{3}\right) & .7 = \left(480^{o} = \frac{8\,\pi}{3}\right) \\ .3 = \left((\text{-}225)^{o} = -\frac{5\,\pi}{4}\right) & .8 = \left(1305^{o} = \frac{29\,\pi}{4}\right) \\ .4 = \left(330^{o} = \frac{11\,\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = (720^{o} = 4\,\pi) & .10 = \left(\left(\frac{720}{\pi}\right)^{o} = 4.000\right) \end{bmatrix}$$

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

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

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

$$Ans6 = \left[\mathrm{Tan}(\theta) - \mathrm{Csc}(\theta) = -\frac{71\sqrt{7}}{21}\right],\quad ,\left[\frac{\sqrt{:)}}{:(}\right]$$

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

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

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TrigonometryExercise3 Answers for No.645105

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^o\right) & .6 = \left(\frac{14\pi}{3} = 840^o\right) \\ .2 = \left(-\frac{4\pi}{3} = (-240)^o\right) & .7 = \left(\frac{13\pi}{6} = 390^o\right) \\ .3 = \left(-\frac{11\pi}{6} = (-330)^o\right) & .8 = \left(-\frac{43\pi}{4} = (-1935)^o\right) \\ .4 = \left(-\frac{5\pi}{4} = (-225)^o\right) & .9 = (4 = 229.183^o) \\ .5 = \left(-\frac{11\pi}{2} = (-990)^o\right) & .10 = (2.5 = 143.239^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^o = \pi) & .6 = \left(2850^o = \frac{95\pi}{6}\right) \\ .2 = \left((-45)^o = -\frac{\pi}{4}\right) & .7 = \left((-1140)^o = -\frac{19\pi}{3}\right) \\ .3 = \left((-150)^o = -\frac{5\pi}{6}\right) & .8 = \left((-2385)^o = -\frac{53\pi}{4}\right) \\ .4 = \left(60^o = \frac{\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = (2160^o = 12\pi) & .10 = \left(\left(\frac{720}{\pi}\right)^o = 4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{10\sqrt{91}}{91}\right)\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = [.1 = [Quadrant = Q4], .2 = [\mathrm{Csc}(\theta) = -\sqrt{5}\,]], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\mathrm{Csc}(\theta) + \mathrm{Cos}(\theta) = \frac{21\sqrt{17}}{68}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = [\mathrm{Csc}(\theta) + \mathrm{Sec}(\theta) = 0], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\mathrm{Csc}(\theta) + \mathrm{Cot}(\theta) = -\frac{\sqrt{6}}{3}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\mathrm{Cot}(\theta) - \mathrm{Cos}(\theta) = -\frac{21\sqrt{7}}{8}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.645106

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{35\pi}{6} = 1050^o\right) \\ .2 = \left(\frac{5\pi}{3} = 300^o\right) & .7 = \left(\frac{43\pi}{3} = 2580^o\right) \\ .3 = \left(\frac{5\pi}{6} = 150^o\right) & .8 = \left(\frac{9\pi}{4} = 405^o\right) \\ .4 = \left(-\frac{7\pi}{4} = (-315)^o\right) & .9 = (4 = 229.183^o) \\ .5 = \left(-\frac{7\pi}{2} = (-630)^o\right) & .10 = (1.5 = 85.944^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((-1950)^o = -\frac{65\pi}{6}\right) \\ .2 = \left(330^o = \frac{11\pi}{6}\right) & .7 = \left((-1200)^o = -\frac{20\pi}{3}\right) \\ .3 = \left(120^o = \frac{2\pi}{3}\right) & .8 = \left(2295^o = \frac{51\pi}{4}\right) \\ .4 = \left(135^o = \frac{3\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = \left((-1170)^o = -\frac{13\pi}{2}\right) & .10 = \left(\left(\frac{810}{\pi}\right)^o = 4.500\right) \end{bmatrix}$$

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

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

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

$$Ans6 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = -\frac{3\sqrt{29}}{29}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cot}(\theta) - \mathrm{Cos}(\theta) = -\frac{24\sqrt{6}}{35}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) - \mathrm{Csc}(\theta) = \frac{3\sqrt{29}}{10}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645107

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{34\,\pi}{3} = (\text{-}2040)^{o}\right) \\ .2 = \left(-\frac{7\,\pi}{6} = (\text{-}210)^{o}\right) & .7 = \left(\frac{13\,\pi}{6} = 390^{o}\right) \\ .3 = \left(\frac{7\,\pi}{4} = 315^{o}\right) & .8 = \left(-\frac{37\,\pi}{4} = (\text{-}1665)^{o}\right) \\ .4 = \left(-\frac{\pi}{3} = (\text{-}60)^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(-\frac{27\,\pi}{2} = (\text{-}2430)^{o}\right) & .10 = (2.5 = 143.239^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((\text{-}1860)^{o} = -\frac{31\,\pi}{3}\right) \\ .2 = \left((\text{-}150)^{o} = -\frac{5\,\pi}{6}\right) & .7 = \left((\text{-}1290)^{o} = -\frac{43\,\pi}{6}\right) \\ .3 = \left(135^{o} = \frac{3\,\pi}{4}\right) & .8 = \left((\text{-}1215)^{o} = -\frac{27\,\pi}{4}\right) \\ .4 = \left(120^{o} = \frac{2\,\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = ((\text{-}2520)^{o} = -14\,\pi) & .10 = \left(\left(\frac{810}{\pi}\right)^{o} = 4.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Sec}(\theta) = -\frac{9\sqrt{77}}{77}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\text{Csc}(\theta) + \text{Cos}(\theta) = \frac{91\sqrt{61}}{366}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Cot}(\theta) + \text{Sec}(\theta) = -\frac{11\sqrt{21}}{42}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Sin}(\theta) + \text{Cot}(\theta) = -\frac{41\sqrt{6}}{264}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Csc}(\theta) + \text{Cos}(\theta) = \frac{49\sqrt{89}}{445}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{46\pi}{3} = 2760^o\right) \\ .2 = \left(-\frac{3\pi}{4} = (-135)^o\right) & .7 = \left(\frac{19\pi}{6} = 570^o\right) \\ .3 = \left(\frac{5\pi}{3} = 300^o\right) & .8 = \left(-\frac{25\pi}{4} = (-1125)^o\right) \\ .4 = \left(\frac{5\pi}{6} = 150^o\right) & .9 = (6 = 343.775^o) \\ .5 = \left(-\frac{5\pi}{2} = (-450)^o\right) & .10 = (4.5 = 257.831^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((-1140)^o = -\frac{19\pi}{3}\right) \\ .2 = \left(315^o = \frac{7\pi}{4}\right) & .7 = \left((-1935)^o = -\frac{43\pi}{4}\right) \\ .3 = \left((-210)^o = -\frac{7\pi}{6}\right) & .8 = \left((-510)^o = -\frac{17\pi}{6}\right) \\ .4 = \left((-120)^o = -\frac{2\pi}{3}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = (1080^o = 6\pi) & .10 = \left(\left(\frac{810}{\pi}\right)^o = 4.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Cot}(\theta) = -\frac{2\sqrt{77}}{77}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\text{Cos}(\theta) = \frac{3\sqrt{10}}{10}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Cos}(\theta) - \text{Tan}(\theta) = -\frac{5\sqrt{7}}{28}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\text{Csc}(\theta) - \text{Sec}(\theta) = -\frac{9\sqrt{53}}{14}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.645109

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(\frac{31\,\pi}{3} = 1860^{o}\right) \\ .2 = \left(-\frac{\pi}{3} = (\text{-}60)^{o}\right) & .7 = \left(\frac{71\,\pi}{6} = 2130^{o}\right) \\ .3 = \left(\frac{\pi}{4} = 45^{o}\right) & .8 = \left(\frac{31\,\pi}{4} = 1395^{o}\right) \\ .4 = \left(-\frac{\pi}{6} = (\text{-}30)^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(-\frac{11\,\pi}{2} = (\text{-}990)^{o}\right) & .10 = (5.5 = 315.127^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left(1305^{o} = \frac{29\,\pi}{4}\right) \\ .2 = \left(240^{o} = \frac{4\,\pi}{3}\right) & .7 = \left((\text{-}1230)^{o} = -\frac{41\,\pi}{6}\right) \\ .3 = \left((\text{-}150)^{o} = -\frac{5\,\pi}{6}\right) & .8 = \left(660^{o} = \frac{11\,\pi}{3}\right) \\ .4 = \left(135^{o} = \frac{3\,\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = (1800^{o} = 10\,\pi) & .10 = \left(\left(\frac{630}{\pi}\right)^{o} = 3.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Sin}(\theta) = -\frac{\sqrt{7}}{4}\right)\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\text{Cos}(\theta) = -\frac{5\sqrt{26}}{26}\right]\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Csc}(\theta) - \text{Cot}(\theta) = \frac{\sqrt{21}}{7}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Csc}(\theta) + \text{Tan}(\theta) = -\frac{5\sqrt{2}}{4}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Cot}(\theta) - \text{Cos}(\theta) = -\frac{27\sqrt{5}}{14}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.645110

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{49\,\pi}{4} = (\text{-}2205)^{o}\right) \\ .2 = \left(-\frac{5\,\pi}{4} = (\text{-}225)^{o}\right) & .7 = \left(\frac{46\,\pi}{3} = 2760^{o}\right) \\ .3 = \left(\frac{2\,\pi}{3} = 120^{o}\right) & .8 = \left(\frac{91\,\pi}{6} = 2730^{o}\right) \\ .4 = \left(-\frac{5\,\pi}{6} = (\text{-}150)^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(-\frac{11\,\pi}{2} = (\text{-}990)^{o}\right) & .10 = (2.5 = 143.239^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left(1230^{o} = \frac{41\,\pi}{6}\right) \\ .2 = \left(315^{o} = \frac{7\,\pi}{4}\right) & .7 = \left((\text{-}1935)^{o} = -\frac{43\,\pi}{4}\right) \\ .3 = \left(300^{o} = \frac{5\,\pi}{3}\right) & .8 = \left((\text{-}2460)^{o} = -\frac{41\,\pi}{3}\right) \\ .4 = \left((\text{-}30)^{o} = -\frac{\pi}{6}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = ((\text{-}2520)^{o} = -14\,\pi) & .10 = \left(\left(-\frac{630}{\pi}\right)^{o} = \text{-}3.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sin}(\theta) - \mathrm{Cos}(\theta) = \frac{\sqrt{10}}{5}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Csc}(\theta) + \mathrm{Cot}(\theta) = -\frac{\sqrt{91}}{7}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = -\frac{3\sqrt{65}}{65}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) - \mathrm{Cot}(\theta) = -\frac{19\sqrt{15}}{60}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645111

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(\frac{67\pi}{6} = 2010^o\right) \\ .2 = \left(-\frac{4\pi}{3} = (-240)^o\right) & .7 = \left(\frac{27\pi}{4} = 1215^o\right) \\ .3 = \left(\frac{7\pi}{6} = 210^o\right) & .8 = \left(\frac{13\pi}{3} = 780^o\right) \\ .4 = \left(\frac{7\pi}{4} = 315^o\right) & .9 = (6 = 343.775^o) \\ .5 = \left(\frac{23\pi}{2} = 2070^o\right) & .10 = (-6.5 = (-372.423)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left((-1020)^o = -\frac{17\pi}{3}\right) \\ .2 = \left((-150)^o = -\frac{5\pi}{6}\right) & .7 = \left((-2565)^o = -\frac{57\pi}{4}\right) \\ .3 = \left(135^o = \frac{3\pi}{4}\right) & .8 = \left(1110^o = \frac{37\pi}{6}\right) \\ .4 = \left((-60)^o = -\frac{\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^o = 1.500\right) \\ .5 = \left((-1530)^o = -\frac{17\pi}{2}\right) & .10 = \left(\left(\frac{900}{\pi}\right)^o = 5.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Cot}(\theta) - \mathrm{Csc}(\theta) = -\frac{\sqrt{105}}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Csc}(\theta) + \mathrm{Cos}(\theta) = \frac{19\sqrt{34}}{102}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = \frac{59\sqrt{77}}{693}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Csc}(\theta) + \mathrm{Cot}(\theta) = -\frac{\sqrt{6}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645112

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\,\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{37\,\pi}{3} = (\text{-}2220)^{o}\right) \\ .2 = \left(-\frac{4\,\pi}{3} = (\text{-}240)^{o}\right) & .7 = \left(\frac{35\,\pi}{4} = 1575^{o}\right) \\ .3 = \left(-\frac{5\,\pi}{4} = (\text{-}225)^{o}\right) & .8 = \left(-\frac{19\,\pi}{6} = (\text{-}570)^{o}\right) \\ .4 = \left(\frac{7\,\pi}{6} = 210^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(-\frac{21\,\pi}{2} = (\text{-}1890)^{o}\right) & .10 = (\text{-}5.5 = (\text{-}315.127)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((\text{-}1755)^{o} = -\frac{39\,\pi}{4}\right) \\ .2 = \left(330^{o} = \frac{11\,\pi}{6}\right) & .7 = \left((\text{-}1230)^{o} = -\frac{41\,\pi}{6}\right) \\ .3 = \left((\text{-}60)^{o} = -\frac{\pi}{3}\right) & .8 = \left((\text{-}660)^{o} = -\frac{11\,\pi}{3}\right) \\ .4 = \left((\text{-}45)^{o} = -\frac{\pi}{4}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = (1800^{o} = 10\,\pi) & .10 = \left(\left(-\frac{450}{\pi}\right)^{o} = \text{-}2.500\right) \end{bmatrix}$$

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

$$Ans4 = [.1 = [Quadrant = Q4], .2 = [\text{Csc}(\theta) = -\sqrt{2}\,]], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\text{Cot}(\theta) - \text{Sin}(\theta) = -\frac{11\sqrt{21}}{105}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\text{Csc}(\theta) + \text{Sec}(\theta) = \frac{2\sqrt{34}}{15}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\text{Csc}(\theta) + \text{Cos}(\theta) = -\frac{129\sqrt{89}}{712}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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

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TrigonometryExercise3 Answers for No.645113

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{13\pi}{3} = (-780)^{o}\right) \\ .2 = \left(\frac{3\pi}{4} = 135^{o}\right) & .7 = \left(\frac{65\pi}{6} = 1950^{o}\right) \\ .3 = \left(\frac{\pi}{3} = 60^{o}\right) & .8 = \left(-\frac{35\pi}{4} = (-1575)^{o}\right) \\ .4 = \left(\frac{5\pi}{6} = 150^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(\frac{11\pi}{2} = 990^{o}\right) & .10 = (-1.5 = (-85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\pi}{2}\right) & .6 = \left(1755^{o} = \frac{39\pi}{4}\right) \\ .2 = \left(300^{o} = \frac{5\pi}{3}\right) & .7 = \left(390^{o} = \frac{13\pi}{6}\right) \\ .3 = \left(210^{o} = \frac{7\pi}{6}\right) & .8 = \left((-1740)^{o} = -\frac{29\pi}{3}\right) \\ .4 = \left((-225)^{o} = -\frac{5\pi}{4}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((-2520)^{o} = -14\pi) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = -3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Cos}(\theta) = -\frac{\sqrt{77}}{9}\right)\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\mathrm{Csc}(\theta) = -\frac{\sqrt{26}}{5}\right]\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\mathrm{Sin}(\theta) - \mathrm{Sec}(\theta) = -\frac{37\sqrt{65}}{260}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\mathrm{Cos}(\theta) + \mathrm{Cot}(\theta) = -\frac{5\sqrt{65}}{36}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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

$$Ans8 = \left[\mathrm{Csc}(\theta) + \mathrm{Cot}(\theta) = \frac{-1}{2}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.645114

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{13\pi}{3} = (-780)^{o}\right) \\ .2 = \left(\frac{\pi}{4} = 45^{o}\right) & .7 = \left(-\frac{25\pi}{6} = (-750)^{o}\right) \\ .3 = \left(\frac{2\pi}{3} = 120^{o}\right) & .8 = \left(-\frac{29\pi}{4} = (-1305)^{o}\right) \\ .4 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(-\frac{11\pi}{2} = (-990)^{o}\right) & .10 = (-6.5 = (-372.423)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(2010^{o} = \frac{67\pi}{6}\right) \\ .2 = \left((-225)^{o} = -\frac{5\pi}{4}\right) & .7 = \left((-1935)^{o} = -\frac{43\pi}{4}\right) \\ .3 = \left(330^{o} = \frac{11\pi}{6}\right) & .8 = \left((-1200)^{o} = -\frac{20\pi}{3}\right) \\ .4 = \left((-240)^{o} = -\frac{4\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((-2520)^{o} = -14\pi) & .10 = \left(\left(-\frac{720}{\pi}\right)^{o} = -4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{10\sqrt{91}}{91}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = [\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = 2\sqrt{2}], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Tan}(\theta) + \mathrm{Sin}(\theta) = \frac{24\sqrt{6}}{55}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cos}(\theta) + \mathrm{Cot}(\theta) = -\frac{13\sqrt{65}}{36}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Csc}(\theta) + \mathrm{Cos}(\theta) = -\frac{39\sqrt{53}}{371}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645115

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{49\pi}{6} = (-1470)^{o}\right) \\ .2 = \left(\frac{11\pi}{6} = 330^{o}\right) & .7 = \left(-\frac{63\pi}{4} = (-2835)^{o}\right) \\ .3 = \left(\frac{5\pi}{4} = 225^{o}\right) & .8 = \left(-\frac{29\pi}{3} = (-1740)^{o}\right) \\ .4 = \left(\frac{4\pi}{3} = 240^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(-\frac{13\pi}{2} = (-1170)^{o}\right) & .10 = (-2.5 = (-143.239)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\pi}{2}\right) & .6 = \left((-1845)^{o} = -\frac{41\pi}{4}\right) \\ .2 = \left(210^{o} = \frac{7\pi}{6}\right) & .7 = \left(1560^{o} = \frac{26\pi}{3}\right) \\ .3 = \left(120^{o} = \frac{2\pi}{3}\right) & .8 = \left((-1410)^{o} = -\frac{47\pi}{6}\right) \\ .4 = \left(135^{o} = \frac{3\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = \left(1710^{o} = \frac{19\pi}{2}\right) & .10 = \left(\left(-\frac{810}{\pi}\right)^{o} = -4.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sec}(\theta) - \mathrm{Sin}(\theta) = \frac{43\sqrt{85}}{510}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cot}(\theta) - \mathrm{Sin}(\theta) = \frac{5\sqrt{2}}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans8 = \left[\mathrm{Tan}(\theta) - \mathrm{Csc}(\theta) = -\frac{11\sqrt{2}}{4}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645116

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{67\pi}{6} = 2010^{o}\right) \\ .2 = \left(\frac{\pi}{3} = 60^{o}\right) & .7 = \left(-\frac{29\pi}{3} = (-1740)^{o}\right) \\ .3 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .8 = \left(-\frac{27\pi}{4} = (-1215)^{o}\right) \\ .4 = \left(-\frac{3\pi}{4} = (-135)^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(\frac{29\pi}{2} = 2610^{o}\right) & .10 = (6.5 = 372.423^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(2850^{o} = \frac{95\pi}{6}\right) \\ .2 = \left(120^{o} = \frac{2\pi}{3}\right) & .7 = \left((-1665)^{o} = -\frac{37\pi}{4}\right) \\ .3 = \left((-330)^{o} = -\frac{11\pi}{6}\right) & .8 = \left((-2040)^{o} = -\frac{34\pi}{3}\right) \\ .4 = \left(315^{o} = \frac{7\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = \left(1710^{o} = \frac{19\pi}{2}\right) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = -3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Tan}(\theta) = -\frac{\sqrt{15}}{15}\right)\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\text{Cos}(\theta) = -\frac{3\sqrt{10}}{10}\right]\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Cot}(\theta) + \text{Sec}(\theta) = \frac{41\sqrt{11}}{55}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Tan}(\theta) + \text{Csc}(\theta) = -\frac{31\sqrt{21}}{42}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Cos}(\theta) - \text{Cot}(\theta) = \frac{7\sqrt{77}}{18}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Csc}(\theta) + \text{Cot}(\theta) = -\frac{\sqrt{77}}{11}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645117

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{35\,\pi}{3} = 2100^o\right) \\ .2 = \left(\frac{2\,\pi}{3} = 120^o\right) & .7 = \left(-\frac{43\,\pi}{6} = (\text{-}1290)^o\right) \\ .3 = \left(\frac{11\,\pi}{6} = 330^o\right) & .8 = \left(-\frac{19\,\pi}{4} = (\text{-}855)^o\right) \\ .4 = \left(\frac{7\,\pi}{4} = 315^o\right) & .9 = (2 = 114.592^o) \\ .5 = \left(-\frac{5\,\pi}{2} = (\text{-}450)^o\right) & .10 = (\text{-}0.5 = (\text{-}28.648)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\,\pi}{2}\right) & .6 = \left(1860^o = \frac{31\,\pi}{3}\right) \\ .2 = \left((\text{-}240)^o = -\frac{4\,\pi}{3}\right) & .7 = \left(1035^o = \frac{23\,\pi}{4}\right) \\ .3 = \left((\text{-}225)^o = -\frac{5\,\pi}{4}\right) & .8 = \left((\text{-}2130)^o = -\frac{71\,\pi}{6}\right) \\ .4 = \left((\text{-}30)^o = -\frac{\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = \left(1710^o = \frac{19\,\pi}{2}\right) & .10 = \left(\left(-\frac{450}{\pi}\right)^o = \text{-}2.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Cot}(\theta) = -\frac{\sqrt{119}}{5}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\text{Tan}(\theta) + \text{Sin}(\theta) = \frac{8\sqrt{2}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\text{Tan}(\theta) + \text{Sin}(\theta) = -\frac{13\sqrt{39}}{40}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Csc}(\theta) + \text{Cos}(\theta) = -\frac{21\sqrt{17}}{17}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{47\,\pi}{6} = 1410^o\right) \\ .2 = \left(-\frac{5\,\pi}{3} = (-300)^o\right) & .7 = \left(\frac{21\,\pi}{4} = 945^o\right) \\ .3 = \left(\frac{11\,\pi}{6} = 330^o\right) & .8 = \left(-\frac{32\,\pi}{3} = (-1920)^o\right) \\ .4 = \left(-\frac{5\,\pi}{4} = (-225)^o\right) & .9 = (3 = 171.887^o) \\ .5 = \left(-\frac{17\,\pi}{2} = (-1530)^o\right) & .10 = (3.5 = 200.535^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left(870^o = \frac{29\,\pi}{6}\right) \\ .2 = \left((-120)^o = -\frac{2\,\pi}{3}\right) & .7 = \left((-2220)^o = -\frac{37\,\pi}{3}\right) \\ .3 = \left(315^o = \frac{7\,\pi}{4}\right) & .8 = \left((-1575)^o = -\frac{35\,\pi}{4}\right) \\ .4 = \left(30^o = \frac{\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = \left((-2430)^o = -\frac{27\,\pi}{2}\right) & .10 = \left(\left(\frac{450}{\pi}\right)^o = 2.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Cos}(\theta) = -\frac{3\sqrt{7}}{8}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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

$$Ans6 = [\mathrm{Cos}(\theta) - \mathrm{Sin}(\theta) = 0], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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

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TrigonometryExercise3 Answers for No.645119

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{10\pi}{3} = (-600)^{o}\right) \\ .2 = \left(-\frac{7\pi}{4} = (-315)^{o}\right) & .7 = \left(\frac{23\pi}{6} = 690^{o}\right) \\ .3 = \left(-\frac{5\pi}{3} = (-300)^{o}\right) & .8 = \left(-\frac{43\pi}{4} = (-1935)^{o}\right) \\ .4 = \left(-\frac{11\pi}{6} = (-330)^{o}\right) & .9 = (7 = 401.070^{o}) \\ .5 = \left(\frac{29\pi}{2} = 2610^{o}\right) & .10 = (-1.5 = (-85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\pi}{2}\right) & .6 = \left(1125^{o} = \frac{25\pi}{4}\right) \\ .2 = \left(120^{o} = \frac{2\pi}{3}\right) & .7 = \left(2820^{o} = \frac{47\pi}{3}\right) \\ .3 = \left((-45)^{o} = -\frac{\pi}{4}\right) & .8 = \left(1290^{o} = \frac{43\pi}{6}\right) \\ .4 = \left(30^{o} = \frac{\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = (1080^{o} = 6\pi) & .10 = \left(\left(\frac{900}{\pi}\right)^{o} = 5.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Cos}(\theta) = -\frac{2\sqrt{10}}{7}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\text{Cos}(\theta) = -\frac{\sqrt{26}}{26}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Csc}(\theta) - \text{Cos}(\theta) = \frac{3\sqrt{5}}{10}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Tan}(\theta) - \text{Csc}(\theta) = -\frac{5\sqrt{2}}{4}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Tan}(\theta) + \text{Csc}(\theta) = -\frac{5\sqrt{33}}{132}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Csc}(\theta) + \text{Cos}(\theta) = -\frac{169\sqrt{113}}{791}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645120

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{61\pi}{6} = 1830^{o}\right) \\ .2 = \left(-\frac{7\pi}{6} = (-210)^{o}\right) & .7 = \left(-\frac{19\pi}{3} = (-1140)^{o}\right) \\ .3 = \left(-\frac{7\pi}{4} = (-315)^{o}\right) & .8 = \left(\frac{53\pi}{4} = 2385^{o}\right) \\ .4 = \left(-\frac{2\pi}{3} = (-120)^{o}\right) & .9 = (6 = 343.775^{o}) \\ .5 = \left(\frac{17\pi}{2} = 1530^{o}\right) & .10 = (-1.5 = (-85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-2100)^{o} = -\frac{35\pi}{3}\right) \\ .2 = \left((-240)^{o} = -\frac{4\pi}{3}\right) & .7 = \left((-2670)^{o} = -\frac{89\pi}{6}\right) \\ .3 = \left(135^{o} = \frac{3\pi}{4}\right) & .8 = \left((-2835)^{o} = -\frac{63\pi}{4}\right) \\ .4 = \left((-30)^{o} = -\frac{\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = \left((-1710)^{o} = -\frac{19\pi}{2}\right) & .10 = \left(\left(\frac{990}{\pi}\right)^{o} = 5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Sin}(\theta) = -\frac{2\sqrt{6}}{5}\right)\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\text{Tan}(\theta) + \text{Sin}(\theta) = \frac{15\sqrt{105}}{44}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Tan}(\theta) + \text{Sin}(\theta) = -\frac{5\sqrt{65}}{36}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Cos}(\theta) + \text{Sin}(\theta) = -\frac{11\sqrt{73}}{73}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Cot}(\theta) + \text{Sec}(\theta) = -\frac{11\sqrt{21}}{42}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645121

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{37\pi}{3} = 2220^o\right) \\ .2 = \left(-\frac{\pi}{4} = (-45)^o\right) & .7 = \left(-\frac{83\pi}{6} = (-2490)^o\right) \\ .3 = \left(\frac{\pi}{3} = 60^o\right) & .8 = \left(-\frac{41\pi}{4} = (-1845)^o\right) \\ .4 = \left(-\frac{5\pi}{6} = (-150)^o\right) & .9 = (5 = 286.479^o) \\ .5 = \left(\frac{15\pi}{2} = 1350^o\right) & .10 = (-2.5 = (-143.239)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left(2040^o = \frac{34\pi}{3}\right) \\ .2 = \left(300^o = \frac{5\pi}{3}\right) & .7 = \left((-1665)^o = -\frac{37\pi}{4}\right) \\ .3 = \left(210^o = \frac{7\pi}{6}\right) & .8 = \left((-2310)^o = -\frac{77\pi}{6}\right) \\ .4 = \left(225^o = \frac{5\pi}{4}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^o = 1.500\right) \\ .5 = ((-2880)^o = -16\pi) & .10 = \left(\left(-\frac{900}{\pi}\right)^o = -5.000\right) \end{bmatrix}$$

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

$$Ans4 = \left[.1 = [Quadrant = Q2], .2 = \left[\text{Sin}(\theta) = \frac{7\sqrt{2}}{10}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sec}(\theta) + \text{Csc}(\theta) = \frac{5\sqrt{17}}{4}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Sin}(\theta) + \text{Sec}(\theta) = \frac{-13}{20}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans8 = \left[\text{Cot}(\theta) - \text{Cos}(\theta) = -\frac{17\sqrt{119}}{60}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645122

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{71\pi}{6} = (-2130)^o\right) \\ .2 = \left(\frac{\pi}{3} = 60^o\right) & .7 = \left(\frac{13\pi}{3} = 780^o\right) \\ .3 = \left(\frac{5\pi}{6} = 150^o\right) & .8 = \left(\frac{27\pi}{4} = 1215^o\right) \\ .4 = \left(-\frac{\pi}{4} = (-45)^o\right) & .9 = (6 = 343.775^o) \\ .5 = \left(-\frac{17\pi}{2} = (-1530)^o\right) & .10 = (-0.5 = (-28.648)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((-2385)^o = -\frac{53\pi}{4}\right) \\ .2 = \left((-330)^o = -\frac{11\pi}{6}\right) & .7 = \left((-1830)^o = -\frac{61\pi}{6}\right) \\ .3 = \left(135^o = \frac{3\pi}{4}\right) & .8 = \left(1920^o = \frac{32\pi}{3}\right) \\ .4 = \left((-240)^o = -\frac{4\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^o = 1.500\right) \\ .5 = \left((-630)^o = -\frac{7\pi}{2}\right) & .10 = \left(\left(\frac{720}{\pi}\right)^o = 4.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\text{Csc}(\theta) - \text{Cot}(\theta) = \frac{\sqrt{7}}{7}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Cos}(\theta) - \text{Cot}(\theta) = \frac{3\sqrt{33}}{28}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Tan}(\theta) + \text{Csc}(\theta) = -\frac{31\sqrt{21}}{42}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Tan}(\theta) - \text{Sin}(\theta) = \frac{11\sqrt{55}}{24}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645123

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{9\pi}{4} = (-405)^o\right) \\ .2 = \left(-\frac{2\pi}{3} = (-120)^o\right) & .7 = \left(\frac{41\pi}{3} = 2460^o\right) \\ .3 = \left(-\frac{\pi}{6} = (-30)^o\right) & .8 = \left(-\frac{85\pi}{6} = (-2550)^o\right) \\ .4 = \left(-\frac{7\pi}{4} = (-315)^o\right) & .9 = (2 = 114.592^o) \\ .5 = \left(-\frac{23\pi}{2} = (-2070)^o\right) & .10 = (-0.5 = (-28.648)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((-2295)^o = -\frac{51\pi}{4}\right) \\ .2 = \left((-330)^o = -\frac{11\pi}{6}\right) & .7 = \left((-1650)^o = -\frac{55\pi}{6}\right) \\ .3 = \left((-60)^o = -\frac{\pi}{3}\right) & .8 = \left(960^o = \frac{16\pi}{3}\right) \\ .4 = \left(135^o = \frac{3\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = ((-2160)^o = -12\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^o = 2.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\text{Csc}(\theta) = -\frac{6\sqrt{35}}{35}\right)\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\text{Cos}(\theta) = \frac{\sqrt{5}}{5}\right]\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans5 = \left[\text{Sin}(\theta) - \text{Cot}(\theta) = \frac{11\sqrt{15}}{60}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\text{Tan}(\theta) + \text{Sin}(\theta) = \frac{24\sqrt{3}}{7}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\text{Csc}(\theta) + \text{Cos}(\theta) = -\frac{\sqrt{2}}{2}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\text{Cos}(\theta) + \text{Sin}(\theta) = -\frac{5\sqrt{53}}{53}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.645124

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{91\pi}{6} = (-2730)^{o}\right) \\ .2 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .7 = \left(-\frac{35\pi}{4} = (-1575)^{o}\right) \\ .3 = \left(-\frac{7\pi}{4} = (-315)^{o}\right) & .8 = \left(\frac{19\pi}{3} = 1140^{o}\right) \\ .4 = \left(\frac{2\pi}{3} = 120^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(-\frac{15\pi}{2} = (-1350)^{o}\right) & .10 = (2.5 = 143.239^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-1125)^{o} = -\frac{25\pi}{4}\right) \\ .2 = \left((-135)^{o} = -\frac{3\pi}{4}\right) & .7 = \left(1680^{o} = \frac{28\pi}{3}\right) \\ .3 = \left((-240)^{o} = -\frac{4\pi}{3}\right) & .8 = \left(870^{o} = \frac{29\pi}{6}\right) \\ .4 = \left((-330)^{o} = -\frac{11\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = \left((-450)^{o} = -\frac{5\pi}{2}\right) & .10 = \left(\left(\frac{900}{\pi}\right)^{o} = 5.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{8\sqrt{55}}{55}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\mathrm{Sin}(\theta) + \mathrm{Sec}(\theta) = \frac{169\sqrt{113}}{904}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cos}(\theta) + \mathrm{Sin}(\theta) = -\frac{\sqrt{13}}{13}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans8 = \left[\mathrm{Cot}(\theta) - \mathrm{Sec}(\theta) = \frac{11}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645125

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{17\pi}{6} = 510^{o}\right) \\ .2 = \left(\frac{5\pi}{6} = 150^{o}\right) & .7 = \left(\frac{31\pi}{4} = 1395^{o}\right) \\ .3 = \left(-\frac{3\pi}{4} = (\text{-}135)^{o}\right) & .8 = \left(-\frac{14\pi}{3} = (\text{-}840)^{o}\right) \\ .4 = \left(-\frac{5\pi}{3} = (\text{-}300)^{o}\right) & .9 = (6 = 343.775^{o}) \\ .5 = \left(\frac{13\pi}{2} = 1170^{o}\right) & .10 = (5.5 = 315.127^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(2850^{o} = \frac{95\pi}{6}\right) \\ .2 = \left((\text{-}210)^{o} = -\frac{7\pi}{6}\right) & .7 = \left(585^{o} = \frac{13\pi}{4}\right) \\ .3 = \left(315^{o} = \frac{7\pi}{4}\right) & .8 = \left(600^{o} = \frac{10\pi}{3}\right) \\ .4 = \left(120^{o} = \frac{2\pi}{3}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = ((\text{-}720)^{o} = -4\pi) & .10 = \left(\left(-\frac{810}{\pi}\right)^{o} = \text{-}4.500\right) \end{bmatrix}$$

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

$$Ans4 = \left[.1 = [Quadrant = Q4], .2 = \left[\text{Csc}(\theta) = -\frac{\sqrt{37}}{6}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\text{Sin}(\theta) + \text{Sec}(\theta) = \frac{7\sqrt{5}}{5}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Tan}(\theta) + \text{Cos}(\theta) = -\frac{\sqrt{5}}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Tan}(\theta) + \text{Csc}(\theta) = -\frac{11\sqrt{15}}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Tan}(\theta) - \text{Csc}(\theta) = \frac{101\sqrt{65}}{260}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.645126

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{53\pi}{6} = 1590^{o}\right) \\ .2 = \left(-\frac{\pi}{3} = (-60)^{o}\right) & .7 = \left(\frac{13\pi}{3} = 780^{o}\right) \\ .3 = \left(-\frac{11\pi}{6} = (-330)^{o}\right) & .8 = \left(-\frac{19\pi}{4} = (-855)^{o}\right) \\ .4 = \left(\frac{\pi}{4} = 45^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(-\frac{11\pi}{2} = (-990)^{o}\right) & .10 = (-4.5 = (-257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(1485^{o} = \frac{33\pi}{4}\right) \\ .2 = \left(150^{o} = \frac{5\pi}{6}\right) & .7 = \left((-1200)^{o} = -\frac{20\pi}{3}\right) \\ .3 = \left((-225)^{o} = -\frac{5\pi}{4}\right) & .8 = \left(1290^{o} = \frac{43\pi}{6}\right) \\ .4 = \left((-120)^{o} = -\frac{2\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = \left(1890^{o} = \frac{21\pi}{2}\right) & .10 = \left(\left(-\frac{720}{\pi}\right)^{o} = -4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{10\sqrt{91}}{91}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\mathrm{Sec}(\theta) - \mathrm{Tan}(\theta) = \frac{\sqrt{39}}{13}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Tan}(\theta) + \mathrm{Sin}(\theta) = -\frac{7\sqrt{77}}{18}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Sin}(\theta) - \mathrm{Cos}(\theta) = \frac{3\sqrt{65}}{65}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{47\,\pi}{3} = 2820^o\right) \\ .2 = \left(\frac{3\,\pi}{4} = 135^o\right) & .7 = \left(\frac{79\,\pi}{6} = 2370^o\right) \\ .3 = \left(\frac{5\,\pi}{3} = 300^o\right) & .8 = \left(-\frac{15\,\pi}{4} = (\text{-}675)^o\right) \\ .4 = \left(\frac{7\,\pi}{6} = 210^o\right) & .9 = (7 = 401.070^o) \\ .5 = \left(-\frac{29\,\pi}{2} = (\text{-}2610)^o\right) & .10 = (2.5 = 143.239^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left((\text{-}1125)^o = -\frac{25\,\pi}{4}\right) \\ .2 = \left((\text{-}30)^o = -\frac{\pi}{6}\right) & .7 = \left(2130^o = \frac{71\,\pi}{6}\right) \\ .3 = \left((\text{-}60)^o = -\frac{\pi}{3}\right) & .8 = \left(1140^o = \frac{19\,\pi}{3}\right) \\ .4 = \left((\text{-}315)^o = -\frac{7\,\pi}{4}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^o = 0.500\right) \\ .5 = ((\text{-}2520)^o = -14\,\pi) & .10 = \left(\left(-\frac{900}{\pi}\right)^o = \text{-}5.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Sec}(\theta) = -\frac{4\sqrt{15}}{15}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\mathrm{Tan}(\theta) + \mathrm{Cos}(\theta) = \frac{11\sqrt{5}}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Cot}(\theta) + \mathrm{Sin}(\theta) = -\frac{5\sqrt{3}}{6}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cos}(\theta) - \mathrm{Tan}(\theta) = -\frac{61\sqrt{91}}{910}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.645128

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{17\pi}{6} = (\text{-}510)^{o}\right) \\ .2 = \left(\frac{5\pi}{4} = 225^{o}\right) & .7 = \left(-\frac{7\pi}{3} = (\text{-}420)^{o}\right) \\ .3 = \left(-\frac{\pi}{3} = (\text{-}60)^{o}\right) & .8 = \left(-\frac{47\pi}{4} = (\text{-}2115)^{o}\right) \\ .4 = \left(-\frac{5\pi}{6} = (\text{-}150)^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(-\frac{7\pi}{2} = (\text{-}630)^{o}\right) & .10 = (3.5 = 200.535^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((\text{-}2640)^{o} = -\frac{44\pi}{3}\right) \\ .2 = \left((\text{-}210)^{o} = -\frac{7\pi}{6}\right) & .7 = \left(1410^{o} = \frac{47\pi}{6}\right) \\ .3 = \left(300^{o} = \frac{5\pi}{3}\right) & .8 = \left((\text{-}1935)^{o} = -\frac{43\pi}{4}\right) \\ .4 = \left((\text{-}45)^{o} = -\frac{\pi}{4}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = (720^{o} = 4\pi) & .10 = \left(\left(\frac{630}{\pi}\right)^{o} = 3.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Sin}(\theta) = -\frac{3\sqrt{5}}{7}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans4 = \left[.1 = [Quadrant = Q3], .2 = \left[\mathrm{Sin}(\theta) = -\frac{5\sqrt{26}}{26}\right]\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans5 = \left[\mathrm{Sin}(\theta) - \mathrm{Tan}(\theta) = -\frac{3\sqrt{39}}{40}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Sec}(\theta) - \mathrm{Sin}(\theta) = -\frac{7\sqrt{13}}{39}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Sin}(\theta) - \mathrm{Tan}(\theta) = \frac{21\sqrt{7}}{8}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) - \mathrm{Sin}(\theta) = -\frac{64\sqrt{6}}{55}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{29\pi}{6} = 870^o\right) \\ .2 = \left(\frac{11\pi}{6} = 330^o\right) & .7 = \left(-\frac{11\pi}{3} = (-660)^o\right) \\ .3 = \left(-\frac{4\pi}{3} = (-240)^o\right) & .8 = \left(-\frac{39\pi}{4} = (-1755)^o\right) \\ .4 = \left(\frac{7\pi}{4} = 315^o\right) & .9 = (4 = 229.183^o) \\ .5 = \left(-\frac{11\pi}{2} = (-990)^o\right) & .10 = (-4.5 = (-257.831)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left((-2400)^o = -\frac{40\pi}{3}\right) \\ .2 = \left(60^o = \frac{\pi}{3}\right) & .7 = \left((-2370)^o = -\frac{79\pi}{6}\right) \\ .3 = \left(135^o = \frac{3\pi}{4}\right) & .8 = \left(1845^o = \frac{41\pi}{4}\right) \\ .4 = \left((-210)^o = -\frac{7\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^o = 1.500\right) \\ .5 = \left((-2610)^o = -\frac{29\pi}{2}\right) & .10 = \left(\left(-\frac{540}{\pi}\right)^o = -3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Cos}(\theta) = -\frac{\sqrt{5}}{3}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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

$$Ans6 = \left[\mathrm{Tan}(\theta) - \mathrm{Csc}(\theta) = \frac{95\sqrt{77}}{154}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = [\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = 0], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) + \mathrm{Csc}(\theta) = -\frac{31\sqrt{21}}{42}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{55\,\pi}{4} = (\text{-}2475)^{o}\right) \\ .2 = \left(-\frac{4\,\pi}{3} = (\text{-}240)^{o}\right) & .7 = \left(\frac{73\,\pi}{6} = 2190^{o}\right) \\ .3 = \left(-\frac{7\,\pi}{4} = (\text{-}315)^{o}\right) & .8 = \left(-\frac{22\,\pi}{3} = (\text{-}1320)^{o}\right) \\ .4 = \left(-\frac{7\,\pi}{6} = (\text{-}210)^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(\frac{31\,\pi}{2} = 2790^{o}\right) & .10 = (1.5 = 85.944^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(930^{o} = \frac{31\,\pi}{6}\right) \\ .2 = \left(150^{o} = \frac{5\,\pi}{6}\right) & .7 = \left(1860^{o} = \frac{31\,\pi}{3}\right) \\ .3 = \left((\text{-}60)^{o} = -\frac{\pi}{3}\right) & .8 = \left(585^{o} = \frac{13\,\pi}{4}\right) \\ .4 = \left(135^{o} = \frac{3\,\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = (2520^{o} = 14\,\pi) & .10 = \left(\left(\frac{720}{\pi}\right)^{o} = 4.000\right) \end{bmatrix}$$

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

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

$$Ans5 = [\text{Sec}(\theta) + \text{Csc}(\theta) = 2\sqrt{2}], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Cos}(\theta) - \text{Tan}(\theta) = -\frac{59\sqrt{6}}{84}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Sin}(\theta) - \text{Cos}(\theta) = -\frac{3\sqrt{5}}{5}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Cot}(\theta) + \text{Sec}(\theta) = -\frac{11\sqrt{2}}{4}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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