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TrigonometryExercise3 Answers for No.9594

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{32\pi}{3} = (-1920)^{o}\right) \\ .2 = \left(\frac{11\pi}{6} = 330^{o}\right) & .7 = \left(\frac{33\pi}{4} = 1485^{o}\right) \\ .3 = \left(\frac{7\pi}{4} = 315^{o}\right) & .8 = \left(\frac{59\pi}{6} = 1770^{o}\right) \\ .4 = \left(\frac{\pi}{3} = 60^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{5\pi}{2} = 450^{o}\right) & .10 = (3.5 = 200.535^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(2115^{o} = \frac{47\pi}{4}\right) \\ .2 = \left((-135)^{o} = -\frac{3\pi}{4}\right) & .7 = \left((-1830)^{o} = -\frac{61\pi}{6}\right) \\ .3 = \left(30^{o} = \frac{\pi}{6}\right) & .8 = \left(2100^{o} = \frac{35\pi}{3}\right) \\ .4 = \left((-300)^{o} = -\frac{5\pi}{3}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = \left(1350^{o} = \frac{15\pi}{2}\right) & .10 = \left(\left(\frac{720}{\pi}\right)^{o} = 4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Cot}(\theta) = -\frac{4\sqrt{6}}{5}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

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

$$Ans6 = \left[\mathrm{Cot}(\theta) - \mathrm{Csc}(\theta) = \frac{1}{3} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans7 = \left[\mathrm{Cot}(\theta) + \mathrm{Sec}(\theta) = -\frac{11\sqrt{5}}{10} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Cot}(\theta) - \mathrm{Csc}(\theta) = \frac{\sqrt{77}}{7} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.9608

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(-\frac{43\,\pi}{3} = (-2580)^o\right) \\ .2 = \left(\frac{2\,\pi}{3} = 120^o\right) & .7 = \left(\frac{83\,\pi}{6} = 2490^o\right) \\ .3 = \left(\frac{11\,\pi}{6} = 330^o\right) & .8 = \left(-\frac{21\,\pi}{4} = (-945)^o\right) \\ .4 = \left(\frac{5\,\pi}{4} = 225^o\right) & .9 = (6 = 343.775^o) \\ .5 = \left(\frac{25\,\pi}{2} = 2250^o\right) & .10 = (0.5 = 28.648^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\,\pi}{2}\right) & .6 = \left(2460^o = \frac{41\,\pi}{3}\right) \\ .2 = \left(60^o = \frac{\pi}{3}\right) & .7 = \left(405^o = \frac{9\,\pi}{4}\right) \\ .3 = \left(210^o = \frac{7\,\pi}{6}\right) & .8 = \left((-2370)^o = -\frac{79\,\pi}{6}\right) \\ .4 = \left(135^o = \frac{3\,\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^o = 2.000\right) \\ .5 = (1080^o = 6\,\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^o = 2.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sec}(\theta) - \mathrm{Csc}(\theta) = \frac{2\sqrt{10}}{3}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = [\mathrm{Tan}(\theta) + \mathrm{Sec}(\theta) = -\sqrt{5}\,], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\mathrm{Tan}(\theta) + \mathrm{Cos}(\theta) = -\frac{29\sqrt{65}}{585}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\mathrm{Cot}(\theta) + \mathrm{Sin}(\theta) = -\frac{59\sqrt{5}}{105}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.9646

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^o) & .6 = \left(\frac{67\pi}{6} = 2010^o\right) \\ .2 = \left(-\frac{5\pi}{6} = (-150)^o\right) & .7 = \left(-\frac{63\pi}{4} = (-2835)^o\right) \\ .3 = \left(-\frac{7\pi}{4} = (-315)^o\right) & .8 = \left(-\frac{37\pi}{3} = (-2220)^o\right) \\ .4 = \left(\frac{2\pi}{3} = 120^o\right) & .9 = (3 = 171.887^o) \\ .5 = \left(\frac{9\pi}{2} = 810^o\right) & .10 = (3.5 = 200.535^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^o = \frac{\pi}{2}\right) & .6 = \left(2640^o = \frac{44\pi}{3}\right) \\ .2 = \left(30^o = \frac{\pi}{6}\right) & .7 = \left(2205^o = \frac{49\pi}{4}\right) \\ .3 = \left((-45)^o = -\frac{\pi}{4}\right) & .8 = \left((-870)^o = -\frac{29\pi}{6}\right) \\ .4 = \left((-300)^o = -\frac{5\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^o = 1.000\right) \\ .5 = ((-1080)^o = -6\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^o = 2.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Cos}(\theta) - \mathrm{Cot}(\theta) = \frac{-8}{15}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = -\frac{11\sqrt{73}}{73}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cot}(\theta) + \mathrm{Sec}(\theta) = -\frac{41\sqrt{3}}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Cos}(\theta) - \mathrm{Csc}(\theta) = -\frac{49\sqrt{34}}{102}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9649

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{11\pi}{4} = (-495)^{o}\right) \\ .2 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .7 = \left(-\frac{32\pi}{3} = (-1920)^{o}\right) \\ .3 = \left(-\frac{\pi}{3} = (-60)^{o}\right) & .8 = \left(-\frac{37\pi}{6} = (-1110)^{o}\right) \\ .4 = \left(-\frac{7\pi}{4} = (-315)^{o}\right) & .9 = (6 = 343.775^{o}) \\ .5 = \left(\frac{21\pi}{2} = 1890^{o}\right) & .10 = (4.5 = 257.831^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(2670^{o} = \frac{89\pi}{6}\right) \\ .2 = \left(120^{o} = \frac{2\pi}{3}\right) & .7 = \left((-660)^{o} = -\frac{11\pi}{3}\right) \\ .3 = \left(135^{o} = \frac{3\pi}{4}\right) & .8 = \left((-2025)^{o} = -\frac{45\pi}{4}\right) \\ .4 = \left((-150)^{o} = -\frac{5\pi}{6}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = (1800^{o} = 10\pi) & .10 = \left(\left(-\frac{630}{\pi}\right)^{o} = -3.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sin}(\theta) - \mathrm{Cos}(\theta) = -\frac{\sqrt{41}}{41} \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\mathrm{Sec}(\theta) - \mathrm{Cot}(\theta) = \frac{29\sqrt{6}}{12} \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Cos}(\theta) - \mathrm{Sin}(\theta) = -\frac{\sqrt{85}}{85} \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9669

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{7\,\pi}{3} = (-420)^{o}\right) \\ .2 = \left(-\frac{4\,\pi}{3} = (-240)^{o}\right) & .7 = \left(\frac{41\,\pi}{6} = 1230^{o}\right) \\ .3 = \left(\frac{\pi}{6} = 30^{o}\right) & .8 = \left(-\frac{29\,\pi}{4} = (-1305)^{o}\right) \\ .4 = \left(\frac{7\,\pi}{4} = 315^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(\frac{5\,\pi}{2} = 450^{o}\right) & .10 = (-6.5 = (-372.423)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left(1050^{o} = \frac{35\,\pi}{6}\right) \\ .2 = \left(225^{o} = \frac{5\,\pi}{4}\right) & .7 = \left((-765)^{o} = -\frac{17\,\pi}{4}\right) \\ .3 = \left((-120)^{o} = -\frac{2\,\pi}{3}\right) & .8 = \left((-2820)^{o} = -\frac{47\,\pi}{3}\right) \\ .4 = \left(150^{o} = \frac{5\,\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = \left((-2790)^{o} = -\frac{31\,\pi}{2}\right) & .10 = \left(\left(-\frac{990}{\pi}\right)^{o} = -5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Cot}(\theta) = -\frac{\sqrt{6}}{12}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

$$Ans5 = \left[\mathrm{Sin}(\theta) - \mathrm{Cot}(\theta) = \frac{55\sqrt{7}}{168} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans6 = \left[\mathrm{Tan}(\theta) + \mathrm{Sec}(\theta) = -\frac{\sqrt{33}}{11} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans7 = \left[\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = \frac{2\sqrt{10}}{3} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) - \mathrm{Cot}(\theta) = \frac{61\sqrt{10}}{60} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.9717

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(\frac{29\,\pi}{3} = 1740^{o}\right) \\ .2 = \left(\frac{\pi}{6} = 30^{o}\right) & .7 = \left(-\frac{13\,\pi}{6} = (-390)^{o}\right) \\ .3 = \left(-\frac{\pi}{3} = (-60)^{o}\right) & .8 = \left(-\frac{17\,\pi}{4} = (-765)^{o}\right) \\ .4 = \left(-\frac{5\,\pi}{4} = (-225)^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(\frac{25\,\pi}{2} = 2250^{o}\right) & .10 = (3.5 = 200.535^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((-1200)^{o} = -\frac{20\,\pi}{3}\right) \\ .2 = \left((-210)^{o} = -\frac{7\,\pi}{6}\right) & .7 = \left((-570)^{o} = -\frac{19\,\pi}{6}\right) \\ .3 = \left(240^{o} = \frac{4\,\pi}{3}\right) & .8 = \left((-1305)^{o} = -\frac{29\,\pi}{4}\right) \\ .4 = \left(315^{o} = \frac{7\,\pi}{4}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((-2160)^{o} = -12\,\pi) & .10 = \left(\left(-\frac{990}{\pi}\right)^{o} = -5.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{11\sqrt{105}}{105}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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

$$Ans6 = \left[\mathrm{Csc}(\theta) - \mathrm{Tan}(\theta) = -\frac{59\sqrt{6}}{60}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Sin}(\theta) - \mathrm{Cos}(\theta) = -\frac{5\sqrt{13}}{13}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) + \mathrm{Sin}(\theta) = -\frac{8\sqrt{6}}{5}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.9763

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{61\pi}{6} = 1830^{o}\right) \\ .2 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .7 = \left(\frac{45\pi}{4} = 2025^{o}\right) \\ .3 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .8 = \left(\frac{44\pi}{3} = 2640^{o}\right) \\ .4 = \left(\frac{4\pi}{3} = 240^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(-\frac{25\pi}{2} = (-2250)^{o}\right) & .10 = (-0.5 = (-28.648)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-510)^{o} = -\frac{17\pi}{6}\right) \\ .2 = \left((-315)^{o} = -\frac{7\pi}{4}\right) & .7 = \left((-2580)^{o} = -\frac{43\pi}{3}\right) \\ .3 = \left((-120)^{o} = -\frac{2\pi}{3}\right) & .8 = \left((-1845)^{o} = -\frac{41\pi}{4}\right) \\ .4 = \left(150^{o} = \frac{5\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((-1440)^{o} = -8\pi) & .10 = \left(\left(-\frac{990}{\pi}\right)^{o} = -5.500\right) \end{bmatrix}$$

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

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

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

$$Ans6 = \left[\mathrm{Sec}(\theta) - \mathrm{Csc}(\theta) = -\frac{13\sqrt{89}}{40} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans7 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = \frac{41\sqrt{11}}{66} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Cot}(\theta) + \mathrm{Cos}(\theta) = -\frac{7\sqrt{119}}{60} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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Trigonometry Exercise3 Answers for No.9877

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{53\pi}{4} = 2385^{o}\right) \\ .2 = \left(\frac{4\pi}{3} = 240^{o}\right) & .7 = \left(-\frac{61\pi}{6} = (-1830)^{o}\right) \\ .3 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .8 = \left(\frac{25\pi}{3} = 1500^{o}\right) \\ .4 = \left(-\frac{3\pi}{4} = (-135)^{o}\right) & .9 = (6 = 343.775^{o}) \\ .5 = \left(-\frac{19\pi}{2} = (-1710)^{o}\right) & .10 = (-4.5 = (-257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-765)^{o} = -\frac{17\pi}{4}\right) \\ .2 = \left(150^{o} = \frac{5\pi}{6}\right) & .7 = \left(1770^{o} = \frac{59\pi}{6}\right) \\ .3 = \left((-300)^{o} = -\frac{5\pi}{3}\right) & .8 = \left(1740^{o} = \frac{29\pi}{3}\right) \\ .4 = \left((-45)^{o} = -\frac{\pi}{4}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = (720^{o} = 4\pi) & .10 = \left(\left(\frac{990}{\pi}\right)^{o} = 5.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = -\frac{5\sqrt{2}}{12} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

$$Ans7 = \left[\mathrm{Csc}(\theta) + \mathrm{Tan}(\theta) = -\frac{19\sqrt{15}}{15} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) - \mathrm{Tan}(\theta) = -\frac{\sqrt{77}}{7} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.9911

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(\frac{71\,\pi}{6} = 2130^{o}\right) \\ .2 = \left(-\frac{2\,\pi}{3} = (-120)^{o}\right) & .7 = \left(\frac{63\,\pi}{4} = 2835^{o}\right) \\ .3 = \left(\frac{5\,\pi}{6} = 150^{o}\right) & .8 = \left(-\frac{22\,\pi}{3} = (-1320)^{o}\right) \\ .4 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(-\frac{15\,\pi}{2} = (-1350)^{o}\right) & .10 = (-4.5 = (-257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left(2370^{o} = \frac{79\,\pi}{6}\right) \\ .2 = \left((-60)^{o} = -\frac{\pi}{3}\right) & .7 = \left(1860^{o} = \frac{31\,\pi}{3}\right) \\ .3 = \left(135^{o} = \frac{3\,\pi}{4}\right) & .8 = \left(585^{o} = \frac{13\,\pi}{4}\right) \\ .4 = \left(330^{o} = \frac{11\,\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = (1440^{o} = 8\,\pi) & .10 = \left(\left(-\frac{720}{\pi}\right)^{o} = -4.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Csc}(\theta) - \mathrm{Cot}(\theta) = \frac{1}{3} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans6 = \left[\mathrm{Csc}(\theta) - \mathrm{Tan}(\theta) = -\frac{79\sqrt{55}}{165} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

$$Ans8 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = \frac{1}{20} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.10027

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{63\pi}{4} = (-2835)^{o}\right) \\ .2 = \left(\frac{4\pi}{3} = 240^{o}\right) & .7 = \left(\frac{13\pi}{3} = 780^{o}\right) \\ .3 = \left(-\frac{7\pi}{4} = (-315)^{o}\right) & .8 = \left(\frac{17\pi}{6} = 510^{o}\right) \\ .4 = \left(-\frac{7\pi}{6} = (-210)^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(-\frac{19\pi}{2} = (-1710)^{o}\right) & .10 = (2.5 = 143.239^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(2565^{o} = \frac{57\pi}{4}\right) \\ .2 = \left(30^{o} = \frac{\pi}{6}\right) & .7 = \left((-1770)^{o} = -\frac{59\pi}{6}\right) \\ .3 = \left(60^{o} = \frac{\pi}{3}\right) & .8 = \left(600^{o} = \frac{10\pi}{3}\right) \\ .4 = \left(135^{o} = \frac{3\pi}{4}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = \left(1890^{o} = \frac{21\pi}{2}\right) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = -3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{9\sqrt{14}}{28}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

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

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

$$Ans7 = \left[\mathrm{Csc}(\theta) - \mathrm{Cos}(\theta) = -\frac{67\sqrt{53}}{106} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Cot}(\theta) - \mathrm{Sin}(\theta) = -\frac{179\sqrt{119}}{1428} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.10063

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^o\right) & .6 = \left(\frac{15\pi}{4} = 675^o\right) \\ .2 = \left(\frac{5\pi}{4} = 225^o\right) & .7 = \left(-\frac{29\pi}{3} = (-1740)^o\right) \\ .3 = \left(\frac{7\pi}{6} = 210^o\right) & .8 = \left(-\frac{71\pi}{6} = (-2130)^o\right) \\ .4 = \left(\frac{5\pi}{3} = 300^o\right) & .9 = (5 = 286.479^o) \\ .5 = \left(\frac{27\pi}{2} = 2430^o\right) & .10 = (-4.5 = (-257.831)^o) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^o = \frac{3\pi}{2}\right) & .6 = \left((-750)^o = -\frac{25\pi}{6}\right) \\ .2 = \left(150^o = \frac{5\pi}{6}\right) & .7 = \left(1860^o = \frac{31\pi}{3}\right) \\ .3 = \left(315^o = \frac{7\pi}{4}\right) & .8 = \left((-1935)^o = -\frac{43\pi}{4}\right) \\ .4 = \left((-120)^o = -\frac{2\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^o = 1.500\right) \\ .5 = ((-2160)^o = -12\pi) & .10 = \left(\left(-\frac{450}{\pi}\right)^o = -2.500\right) \end{bmatrix}$$

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

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

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

$$Ans6 = \left[\mathrm{Cos}(\theta) - \mathrm{Csc}(\theta) = \frac{3\sqrt{5}}{5}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cot}(\theta) - \mathrm{Cos}(\theta) = \frac{-27}{20}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.10120

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{43\,\pi}{6} = (-1290)^{o}\right) \\ .2 = \left(\frac{7\,\pi}{6} = 210^{o}\right) & .7 = \left(\frac{17\,\pi}{3} = 1020^{o}\right) \\ .3 = \left(\frac{2\,\pi}{3} = 120^{o}\right) & .8 = \left(-\frac{63\,\pi}{4} = (-2835)^{o}\right) \\ .4 = \left(\frac{\pi}{4} = 45^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(\frac{7\,\pi}{2} = 630^{o}\right) & .10 = (-4.5 = (-257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((-2490)^{o} = -\frac{83\,\pi}{6}\right) \\ .2 = \left(300^{o} = \frac{5\,\pi}{3}\right) & .7 = \left((-1500)^{o} = -\frac{25\,\pi}{3}\right) \\ .3 = \left((-150)^{o} = -\frac{5\,\pi}{6}\right) & .8 = \left(1215^{o} = \frac{27\,\pi}{4}\right) \\ .4 = \left(225^{o} = \frac{5\,\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = (1080^{o} = 6\,\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^{o} = 2.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Cot}(\theta) = -\frac{\sqrt{3}}{12}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = \frac{10\sqrt{58}}{21} \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans7 = \left[\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = -\frac{3\sqrt{5}}{2} \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Cos}(\theta) - \mathrm{Sin}(\theta) = \frac{-7}{5} \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.10367

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{51\pi}{4} = 2295^{o}\right) \\ .2 = \left(-\frac{5\pi}{3} = (-300)^{o}\right) & .7 = \left(\frac{11\pi}{3} = 660^{o}\right) \\ .3 = \left(-\frac{11\pi}{6} = (-330)^{o}\right) & .8 = \left(-\frac{65\pi}{6} = (-1950)^{o}\right) \\ .4 = \left(-\frac{3\pi}{4} = (-135)^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(-\frac{21\pi}{2} = (-1890)^{o}\right) & .10 = (-1.5 = (-85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((-2580)^{o} = -\frac{43\pi}{3}\right) \\ .2 = \left(150^{o} = \frac{5\pi}{6}\right) & .7 = \left((-1395)^{o} = -\frac{31\pi}{4}\right) \\ .3 = \left((-60)^{o} = -\frac{\pi}{3}\right) & .8 = \left(390^{o} = \frac{13\pi}{6}\right) \\ .4 = \left(225^{o} = \frac{5\pi}{4}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = ((-2520)^{o} = -14\pi) & .10 = \left(\left(\frac{540}{\pi}\right)^{o} = 3.000\right) \end{bmatrix}$$

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

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

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

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

$$Ans7 = \left[\mathrm{Cot}(\theta) + \mathrm{Cos}(\theta) = -\frac{11\sqrt{11}}{30}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

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TrigonometryExercise3 Answers for No.10372

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{83\,\pi}{6} = (-2490)^{o}\right) \\ .2 = \left(-\frac{\pi}{3} = (-60)^{o}\right) & .7 = \left(\frac{13\,\pi}{3} = 780^{o}\right) \\ .3 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .8 = \left(\frac{31\,\pi}{4} = 1395^{o}\right) \\ .4 = \left(\frac{11\,\pi}{6} = 330^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(-\frac{5\,\pi}{2} = (-450)^{o}\right) & .10 = (5.5 = 315.127^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((-1560)^{o} = -\frac{26\,\pi}{3}\right) \\ .2 = \left(225^{o} = \frac{5\,\pi}{4}\right) & .7 = \left((-1470)^{o} = -\frac{49\,\pi}{6}\right) \\ .3 = \left(120^{o} = \frac{2\,\pi}{3}\right) & .8 = \left(1665^{o} = \frac{37\,\pi}{4}\right) \\ .4 = \left(150^{o} = \frac{5\,\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = (1440^{o} = 8\,\pi) & .10 = \left(\left(-\frac{900}{\pi}\right)^{o} = -5.000\right) \end{bmatrix}$$

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

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

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

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

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

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

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TrigonometryExercise3 Answers for No.10375

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{45\,\pi}{4} = (-2025)^{o}\right) \\ .2 = \left(\frac{5\,\pi}{6} = 150^{o}\right) & .7 = \left(\frac{23\,\pi}{6} = 690^{o}\right) \\ .3 = \left(-\frac{7\,\pi}{4} = (-315)^{o}\right) & .8 = \left(\frac{14\,\pi}{3} = 840^{o}\right) \\ .4 = \left(\frac{\pi}{3} = 60^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{25\,\pi}{2} = 2250^{o}\right) & .10 = (-6.5 = (-372.423)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(2370^{o} = \frac{79\,\pi}{6}\right) \\ .2 = \left(225^{o} = \frac{5\,\pi}{4}\right) & .7 = \left((-2220)^{o} = -\frac{37\,\pi}{3}\right) \\ .3 = \left(210^{o} = \frac{7\,\pi}{6}\right) & .8 = \left((-2655)^{o} = -\frac{59\,\pi}{4}\right) \\ .4 = \left((-300)^{o} = -\frac{5\,\pi}{3}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = ((-2520)^{o} = -14\,\pi) & .10 = \left(\left(\frac{540}{\pi}\right)^{o} = 3.000\right) \end{bmatrix}$$

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

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

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

$$Ans6 = \left[\mathrm{Cos}(\theta) - \mathrm{Cot}(\theta) = -\frac{7\sqrt{21}}{10} \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cos}(\theta) + \mathrm{Csc}(\theta) = -\frac{31\sqrt{61}}{305} \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) - \mathrm{Sin}(\theta) = -\frac{127\sqrt{85}}{595} \right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.10426

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(\frac{11\,\pi}{3} = 660^{o}\right) \\ .2 = \left(-\frac{\pi}{4} = (\text{-}45)^{o}\right) & .7 = \left(-\frac{27\,\pi}{4} = (\text{-}1215)^{o}\right) \\ .3 = \left(\frac{2\,\pi}{3} = 120^{o}\right) & .8 = \left(-\frac{67\,\pi}{6} = (\text{-}2010)^{o}\right) \\ .4 = \left(\frac{7\,\pi}{6} = 210^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(-\frac{27\,\pi}{2} = (\text{-}2430)^{o}\right) & .10 = (\text{-}4.5 = (\text{-}257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((\text{-}1320)^{o} = -\frac{22\,\pi}{3}\right) \\ .2 = \left(225^{o} = \frac{5\,\pi}{4}\right) & .7 = \left(1590^{o} = \frac{53\,\pi}{6}\right) \\ .3 = \left((\text{-}240)^{o} = -\frac{4\,\pi}{3}\right) & .8 = \left(2835^{o} = \frac{63\,\pi}{4}\right) \\ .4 = \left(150^{o} = \frac{5\,\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = ((\text{-}1080)^{o} = -6\,\pi) & .10 = \left(\left(-\frac{630}{\pi}\right)^{o} = \text{-}3.500\right) \end{bmatrix}$$

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

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

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

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

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

$$Ans8 = \left[\text{Sin}(\theta) - \text{Cos}(\theta) = \frac{13\sqrt{89}}{89}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.10628

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{17\,\pi}{6} = (-510)^{o}\right) \\ .2 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .7 = \left(\frac{25\,\pi}{3} = 1500^{o}\right) \\ .3 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .8 = \left(\frac{17\,\pi}{4} = 765^{o}\right) \\ .4 = \left(\frac{5\,\pi}{3} = 300^{o}\right) & .9 = (3 = 171.887^{o}) \\ .5 = \left(-\frac{11\,\pi}{2} = (-990)^{o}\right) & .10 = (4.5 = 257.831^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-1380)^{o} = -\frac{23\,\pi}{3}\right) \\ .2 = \left(120^{o} = \frac{2\,\pi}{3}\right) & .7 = \left((-1035)^{o} = -\frac{23\,\pi}{4}\right) \\ .3 = \left((-150)^{o} = -\frac{5\,\pi}{6}\right) & .8 = \left((-1470)^{o} = -\frac{49\,\pi}{6}\right) \\ .4 = \left((-315)^{o} = -\frac{7\,\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = \left(2610^{o} = \frac{29\,\pi}{2}\right) & .10 = \left(\left(-\frac{900}{\pi}\right)^{o} = -5.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = \frac{11\sqrt{61}}{61}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Tan}(\theta) + \mathrm{Sin}(\theta) = \frac{3}{20}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Cos}(\theta) - \mathrm{Csc}(\theta) = \frac{169\sqrt{113}}{904}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = -\frac{11\sqrt{6}}{84}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.11408

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{35\,\pi}{6} = (-1050)^{o}\right) \\ .2 = \left(-\frac{3\,\pi}{4} = (-135)^{o}\right) & .7 = \left(\frac{10\,\pi}{3} = 600^{o}\right) \\ .3 = \left(\frac{5\,\pi}{6} = 150^{o}\right) & .8 = \left(-\frac{59\,\pi}{4} = (-2655)^{o}\right) \\ .4 = \left(-\frac{5\,\pi}{3} = (-300)^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{15\,\pi}{2} = 1350^{o}\right) & .10 = (-2.5 = (-143.239)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-2820)^{o} = -\frac{47\,\pi}{3}\right) \\ .2 = \left((-210)^{o} = -\frac{7\,\pi}{6}\right) & .7 = \left((-2115)^{o} = -\frac{47\,\pi}{4}\right) \\ .3 = \left((-225)^{o} = -\frac{5\,\pi}{4}\right) & .8 = \left((-2190)^{o} = -\frac{73\,\pi}{6}\right) \\ .4 = \left(60^{o} = \frac{\pi}{3}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = \left(1530^{o} = \frac{17\,\pi}{2}\right) & .10 = \left(\left(\frac{810}{\pi}\right)^{o} = 4.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{7\sqrt{3}}{12}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

$$Ans5 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = \frac{11\sqrt{6}}{84} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans6 = \left[\mathrm{Cot}(\theta) - \mathrm{Sin}(\theta) = \frac{79\sqrt{55}}{440} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

$$Ans8 = \left[\mathrm{Sin}(\theta) - \mathrm{Sec}(\theta) = -\frac{97\sqrt{73}}{219} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.11560

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{65\,\pi}{6} = (-1950)^{o}\right) \\ .2 = \left(\frac{\pi}{3} = 60^{o}\right) & .7 = \left(-\frac{13\,\pi}{4} = (-585)^{o}\right) \\ .3 = \left(-\frac{7\,\pi}{4} = (-315)^{o}\right) & .8 = \left(\frac{23\,\pi}{3} = 1380^{o}\right) \\ .4 = \left(\frac{\pi}{6} = 30^{o}\right) & .9 = (6 = 343.775^{o}) \\ .5 = \left(\frac{23\,\pi}{2} = 2070^{o}\right) & .10 = (1.5 = 85.944^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-2370)^{o} = -\frac{79\,\pi}{6}\right) \\ .2 = \left(210^{o} = \frac{7\,\pi}{6}\right) & .7 = \left(1845^{o} = \frac{41\,\pi}{4}\right) \\ .3 = \left((-300)^{o} = -\frac{5\,\pi}{3}\right) & .8 = \left(960^{o} = \frac{16\,\pi}{3}\right) \\ .4 = \left(135^{o} = \frac{3\,\pi}{4}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = (2160^{o} = 12\,\pi) & .10 = \left(\left(\frac{630}{\pi}\right)^{o} = 3.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sec}(\theta) - \mathrm{Csc}(\theta) = -\frac{5\sqrt{73}}{24} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

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

$$Ans8 = \left[\mathrm{Cot}(\theta) + \mathrm{Sec}(\theta) = -\frac{11\sqrt{6}}{60} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.11806

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(\frac{17\,\pi}{3} = 1020^{o}\right) \\ .2 = \left(\frac{\pi}{6} = 30^{o}\right) & .7 = \left(-\frac{13\,\pi}{4} = (\text{-}585)^{o}\right) \\ .3 = \left(\frac{3\,\pi}{4} = 135^{o}\right) & .8 = \left(\frac{43\,\pi}{6} = 1290^{o}\right) \\ .4 = \left(-\frac{2\,\pi}{3} = (\text{-}120)^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(-\frac{13\,\pi}{2} = (\text{-}1170)^{o}\right) & .10 = (0.5 = 28.648^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((\text{-}2130)^{o} = -\frac{71\,\pi}{6}\right) \\ .2 = \left(330^{o} = \frac{11\,\pi}{6}\right) & .7 = \left((\text{-}675)^{o} = -\frac{15\,\pi}{4}\right) \\ .3 = \left((\text{-}45)^{o} = -\frac{\pi}{4}\right) & .8 = \left((\text{-}2760)^{o} = -\frac{46\,\pi}{3}\right) \\ .4 = \left(240^{o} = \frac{4\,\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = \left(1350^{o} = \frac{15\,\pi}{2}\right) & .10 = \left(\left(\frac{900}{\pi}\right)^{o} = 5.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = \frac{9\sqrt{41}}{41}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans6 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = -\frac{29\sqrt{6}}{60}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans7 = \left[\mathrm{Sin}(\theta) + \mathrm{Sec}(\theta) = -\frac{39\sqrt{29}}{58}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

$$Ans8 = \left[\mathrm{Sec}(\theta) - \mathrm{Cot}(\theta) = \frac{19\sqrt{7}}{21}\right], \quad , \begin{bmatrix} \sqrt{:)} \\ :(\end{bmatrix}$$

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TrigonometryExercise3 Answers for No.12219

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{77\pi}{6} = (\text{-}2310)^{o}\right) \\ .2 = \left(-\frac{5\pi}{3} = (\text{-}300)^{o}\right) & .7 = \left(-\frac{35\pi}{4} = (\text{-}1575)^{o}\right) \\ .3 = \left(\frac{5\pi}{4} = 225^{o}\right) & .8 = \left(\frac{38\pi}{3} = 2280^{o}\right) \\ .4 = \left(\frac{7\pi}{6} = 210^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(-\frac{31\pi}{2} = (\text{-}2790)^{o}\right) & .10 = (6.5 = 372.423^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(2580^{o} = \frac{43\pi}{3}\right) \\ .2 = \left(135^{o} = \frac{3\pi}{4}\right) & .7 = \left(1125^{o} = \frac{25\pi}{4}\right) \\ .3 = \left(120^{o} = \frac{2\pi}{3}\right) & .8 = \left((\text{-}1830)^{o} = -\frac{61\pi}{6}\right) \\ .4 = \left(150^{o} = \frac{5\pi}{6}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = (1440^{o} = 8\pi) & .10 = \left(\left(\frac{540}{\pi}\right)^{o} = 3.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\text{Tan}(\theta) = -\frac{5\sqrt{14}}{28}\right)\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans5 = \left[\text{Tan}(\theta) - \text{Csc}(\theta) = \frac{11\sqrt{14}}{140}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\text{Csc}(\theta) - \text{Cos}(\theta) = \frac{21\sqrt{17}}{68}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\text{Cot}(\theta) + \text{Cos}(\theta) = \frac{4\sqrt{6}}{35}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\text{Tan}(\theta) - \text{Cos}(\theta) = -\frac{19\sqrt{15}}{60}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.12954

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{19\pi}{6} = 570^{o}\right) \\ .2 = \left(-\frac{5\pi}{6} = (-150)^{o}\right) & .7 = \left(\frac{11\pi}{3} = 660^{o}\right) \\ .3 = \left(\frac{2\pi}{3} = 120^{o}\right) & .8 = \left(-\frac{63\pi}{4} = (-2835)^{o}\right) \\ .4 = \left(-\frac{7\pi}{4} = (-315)^{o}\right) & .9 = (1 = 57.296^{o}) \\ .5 = \left(-\frac{27\pi}{2} = (-2430)^{o}\right) & .10 = (-2.5 = (-143.239)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left(510^{o} = \frac{17\pi}{6}\right) \\ .2 = \left((-60)^{o} = -\frac{\pi}{3}\right) & .7 = \left((-1125)^{o} = -\frac{25\pi}{4}\right) \\ .3 = \left((-210)^{o} = -\frac{7\pi}{6}\right) & .8 = \left(1680^{o} = \frac{28\pi}{3}\right) \\ .4 = \left(135^{o} = \frac{3\pi}{4}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = ((-360)^{o} = -2\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^{o} = 2.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{8\sqrt{7}}{21}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

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

$$Ans6 = \left[\mathrm{Sec}(\theta) - \mathrm{Cot}(\theta) = \frac{121\sqrt{91}}{273} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans7 = \left[\mathrm{Cot}(\theta) + \mathrm{Sec}(\theta) = -\frac{\sqrt{39}}{195} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) - \mathrm{Sin}(\theta) = -\frac{20\sqrt{10}}{21} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.12964

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(-\frac{91\,\pi}{6} = (-2730)^{o}\right) \\ .2 = \left(-\frac{5\,\pi}{4} = (-225)^{o}\right) & .7 = \left(\frac{21\,\pi}{4} = 945^{o}\right) \\ .3 = \left(-\frac{11\,\pi}{6} = (-330)^{o}\right) & .8 = \left(-\frac{26\,\pi}{3} = (-1560)^{o}\right) \\ .4 = \left(-\frac{2\,\pi}{3} = (-120)^{o}\right) & .9 = (6 = 343.775^{o}) \\ .5 = \left(-\frac{7\,\pi}{2} = (-630)^{o}\right) & .10 = (-1.5 = (-85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left(780^{o} = \frac{13\,\pi}{3}\right) \\ .2 = \left(210^{o} = \frac{7\,\pi}{6}\right) & .7 = \left(1470^{o} = \frac{49\,\pi}{6}\right) \\ .3 = \left(315^{o} = \frac{7\,\pi}{4}\right) & .8 = \left(2205^{o} = \frac{49\,\pi}{4}\right) \\ .4 = \left((-300)^{o} = -\frac{5\,\pi}{3}\right) & .9 = \left(\left(\frac{360}{\pi}\right)^{o} = 2.000\right) \\ .5 = (1080^{o} = 6\,\pi) & .10 = \left(\left(\frac{720}{\pi}\right)^{o} = 4.000\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q4], .2 = \left(\mathrm{Csc}(\theta) = -\frac{9\sqrt{77}}{77}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

$$Ans5 = \left[\mathrm{Cot}(\theta) + \mathrm{Sec}(\theta) = \frac{59\sqrt{5}}{30} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans6 = \left[\mathrm{Cos}(\theta) + \mathrm{Tan}(\theta) = \frac{\sqrt{39}}{312} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

$$Ans8 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = \frac{\sqrt{10}}{5} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.12971

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(\frac{8\,\pi}{3} = 480^{o}\right) \\ .2 = \left(\frac{4\,\pi}{3} = 240^{o}\right) & .7 = \left(-\frac{39\,\pi}{4} = (-1755)^{o}\right) \\ .3 = \left(\frac{\pi}{6} = 30^{o}\right) & .8 = \left(\frac{13\,\pi}{6} = 390^{o}\right) \\ .4 = \left(\frac{\pi}{4} = 45^{o}\right) & .9 = (7 = 401.070^{o}) \\ .5 = \left(\frac{15\,\pi}{2} = 1350^{o}\right) & .10 = (-1.5 = (-85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((-1050)^{o} = -\frac{35\,\pi}{6}\right) \\ .2 = \left((-315)^{o} = -\frac{7\,\pi}{4}\right) & .7 = \left((-600)^{o} = -\frac{10\,\pi}{3}\right) \\ .3 = \left(210^{o} = \frac{7\,\pi}{6}\right) & .8 = \left(1665^{o} = \frac{37\,\pi}{4}\right) \\ .4 = \left(60^{o} = \frac{\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = \left(2250^{o} = \frac{25\,\pi}{2}\right) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = -3.000\right) \end{bmatrix}$$

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

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

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

$$Ans6 = \left[\mathrm{Cot}(\theta) + \mathrm{Cos}(\theta) = -\frac{4\sqrt{2}}{3}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans7 = \left[\mathrm{Csc}(\theta) + \mathrm{Tan}(\theta) = \frac{-1}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans8 = \left[\mathrm{Tan}(\theta) - \mathrm{Cos}(\theta) = \frac{5\sqrt{3}}{6}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(-\frac{15\pi}{4} = (-675)^{o}\right) \\ .2 = \left(-\frac{5\pi}{4} = (-225)^{o}\right) & .7 = \left(-\frac{31\pi}{6} = (-930)^{o}\right) \\ .3 = \left(-\frac{5\pi}{3} = (-300)^{o}\right) & .8 = \left(\frac{16\pi}{3} = 960^{o}\right) \\ .4 = \left(-\frac{7\pi}{6} = (-210)^{o}\right) & .9 = (2 = 114.592^{o}) \\ .5 = \left(-\frac{13\pi}{2} = (-1170)^{o}\right) & .10 = (-1.5 = (-85.944)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = (180^{o} = \pi) & .6 = \left((-1485)^{o} = -\frac{33\pi}{4}\right) \\ .2 = \left(120^{o} = \frac{2\pi}{3}\right) & .7 = \left(1860^{o} = \frac{31\pi}{3}\right) \\ .3 = \left((-45)^{o} = -\frac{\pi}{4}\right) & .8 = \left(870^{o} = \frac{29\pi}{6}\right) \\ .4 = \left(30^{o} = \frac{\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = \left((-630)^{o} = -\frac{7\pi}{2}\right) & .10 = \left(\left(-\frac{540}{\pi}\right)^{o} = -3.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Cos}(\theta) - \mathrm{Csc}(\theta) = -\frac{19\sqrt{29}}{145}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Csc}(\theta) - \mathrm{Sec}(\theta) = -\frac{3\sqrt{5}}{2}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans8 = \left[\mathrm{Csc}(\theta) - \mathrm{Tan}(\theta) = \frac{61\sqrt{33}}{132}\right], \quad \left[\frac{\sqrt{:)}}{:(}\right]$$

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TrigonometryExercise3 Answers for No.13033

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{27\pi}{4} = 1215^{o}\right) \\ .2 = \left(-\frac{\pi}{6} = (-30)^{o}\right) & .7 = \left(\frac{29\pi}{3} = 1740^{o}\right) \\ .3 = \left(\frac{4\pi}{3} = 240^{o}\right) & .8 = \left(\frac{61\pi}{6} = 1830^{o}\right) \\ .4 = \left(-\frac{\pi}{4} = (-45)^{o}\right) & .9 = (4 = 229.183^{o}) \\ .5 = \left(\frac{21\pi}{2} = 1890^{o}\right) & .10 = (-3.5 = (-200.535)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left(1395^{o} = \frac{31\pi}{4}\right) \\ .2 = \left((-225)^{o} = -\frac{5\pi}{4}\right) & .7 = \left(1200^{o} = \frac{20\pi}{3}\right) \\ .3 = \left((-120)^{o} = -\frac{2\pi}{3}\right) & .8 = \left((-930)^{o} = -\frac{31\pi}{6}\right) \\ .4 = \left((-330)^{o} = -\frac{11\pi}{6}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = \left(2070^{o} = \frac{23\pi}{2}\right) & .10 = \left(\left(\frac{630}{\pi}\right)^{o} = 3.500\right) \end{bmatrix}$$

$$Ans3 = \left[.1 = [Quadrant = Q2], .2 = \left(\mathrm{Sec}(\theta) = -\frac{11\sqrt{6}}{24}\right) \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

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

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

$$Ans7 = \left[\mathrm{Tan}(\theta) + \mathrm{Sin}(\theta) = \frac{3}{20} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

TrigonometryExercise3 Answers for No.13197

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{\pi}{2} = 90^{o}\right) & .6 = \left(\frac{53\,\pi}{4} = 2385^{o}\right) \\ .2 = \left(-\frac{3\,\pi}{4} = (-135)^{o}\right) & .7 = \left(-\frac{40\,\pi}{3} = (-2400)^{o}\right) \\ .3 = \left(-\frac{\pi}{3} = (-60)^{o}\right) & .8 = \left(-\frac{71\,\pi}{6} = (-2130)^{o}\right) \\ .4 = \left(\frac{11\,\pi}{6} = 330^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(\frac{11\,\pi}{2} = 990^{o}\right) & .10 = (-4.5 = (-257.831)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((-495)^{o} = -\frac{11\,\pi}{4}\right) \\ .2 = \left(45^{o} = \frac{\pi}{4}\right) & .7 = \left(2370^{o} = \frac{79\,\pi}{6}\right) \\ .3 = \left((-210)^{o} = -\frac{7\,\pi}{6}\right) & .8 = \left((-1920)^{o} = -\frac{32\,\pi}{3}\right) \\ .4 = \left(120^{o} = \frac{2\,\pi}{3}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = \left(1530^{o} = \frac{17\,\pi}{2}\right) & .10 = \left(\left(\frac{810}{\pi}\right)^{o} = 4.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sec}(\theta) - \mathrm{Cot}(\theta) = -\frac{29\sqrt{65}}{260} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans6 = \left[\mathrm{Csc}(\theta) - \mathrm{Sec}(\theta) = \frac{13\sqrt{89}}{40} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans7 = \left[\mathrm{Sin}(\theta) - \mathrm{Cot}(\theta) = -\frac{31\sqrt{55}}{440} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = -\frac{10\sqrt{58}}{21} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.13907

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{45\,\pi}{4} = (-2025)^{o}\right) \\ .2 = \left(\frac{\pi}{6} = 30^{o}\right) & .7 = \left(-\frac{13\,\pi}{6} = (-390)^{o}\right) \\ .3 = \left(-\frac{5\,\pi}{4} = (-225)^{o}\right) & .8 = \left(-\frac{32\,\pi}{3} = (-1920)^{o}\right) \\ .4 = \left(\frac{2\,\pi}{3} = 120^{o}\right) & .9 = (7 = 401.070^{o}) \\ .5 = \left(\frac{17\,\pi}{2} = 1530^{o}\right) & .10 = (-6.5 = (-372.423)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((-2475)^{o} = -\frac{55\,\pi}{4}\right) \\ .2 = \left(330^{o} = \frac{11\,\pi}{6}\right) & .7 = \left(1320^{o} = \frac{22\,\pi}{3}\right) \\ .3 = \left(45^{o} = \frac{\pi}{4}\right) & .8 = \left((-870)^{o} = -\frac{29\,\pi}{6}\right) \\ .4 = \left((-240)^{o} = -\frac{4\,\pi}{3}\right) & .9 = \left(\left(\frac{90}{\pi}\right)^{o} = 0.500\right) \\ .5 = (2160^{o} = 12\,\pi) & .10 = \left(\left(\frac{540}{\pi}\right)^{o} = 3.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sec}(\theta) - \mathrm{Csc}(\theta) = \frac{5}{12}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

$$Ans6 = \left[\mathrm{Tan}(\theta) + \mathrm{Sec}(\theta) = \frac{\sqrt{2}}{2}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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

$$Ans8 = \left[\mathrm{Sin}(\theta) - \mathrm{Cos}(\theta) = -\frac{2\sqrt{58}}{29}\right], \quad , \left[\frac{\sqrt{:)}}{:(}\right]$$

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Trigonometry Exercise3 Answers for No.13991

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{31\,\pi}{6} = (-930)^{o}\right) \\ .2 = \left(-\frac{\pi}{3} = (-60)^{o}\right) & .7 = \left(-\frac{34\,\pi}{3} = (-2040)^{o}\right) \\ .3 = \left(\frac{5\,\pi}{4} = 225^{o}\right) & .8 = \left(\frac{33\,\pi}{4} = 1485^{o}\right) \\ .4 = \left(-\frac{5\,\pi}{6} = (-150)^{o}\right) & .9 = (6 = 343.775^{o}) \\ .5 = \left(-\frac{23\,\pi}{2} = (-2070)^{o}\right) & .10 = (-6.5 = (-372.423)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-2655)^{o} = -\frac{59\,\pi}{4}\right) \\ .2 = \left(135^{o} = \frac{3\,\pi}{4}\right) & .7 = \left((-2580)^{o} = -\frac{43\,\pi}{3}\right) \\ .3 = \left((-210)^{o} = -\frac{7\,\pi}{6}\right) & .8 = \left(1830^{o} = \frac{61\,\pi}{6}\right) \\ .4 = \left(300^{o} = \frac{5\,\pi}{3}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = (1080^{o} = 6\,\pi) & .10 = \left(\left(-\frac{900}{\pi}\right)^{o} = -5.000\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Tan}(\theta) + \mathrm{Sec}(\theta) = \frac{\sqrt{55}}{5} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans6 = \left[\mathrm{Sin}(\theta) + \mathrm{Cot}(\theta) = -\frac{11\sqrt{15}}{60} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans7 = \left[\mathrm{Csc}(\theta) - \mathrm{Sec}(\theta) = \frac{12\sqrt{74}}{35} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = -\frac{3\sqrt{17}}{17} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.14005

$$Ans1 = \begin{bmatrix} .1 = (\pi = 180^{o}) & .6 = \left(-\frac{73\,\pi}{6} = (-2190)^{o}\right) \\ .2 = \left(-\frac{5\,\pi}{6} = (-150)^{o}\right) & .7 = \left(-\frac{23\,\pi}{4} = (-1035)^{o}\right) \\ .3 = \left(-\frac{5\,\pi}{3} = (-300)^{o}\right) & .8 = \left(-\frac{10\,\pi}{3} = (-600)^{o}\right) \\ .4 = \left(-\frac{7\,\pi}{4} = (-315)^{o}\right) & .9 = (5 = 286.479^{o}) \\ .5 = \left(\frac{7\,\pi}{2} = 630^{o}\right) & .10 = (1.5 = 85.944^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(270^{o} = \frac{3\,\pi}{2}\right) & .6 = \left((-480)^{o} = -\frac{8\,\pi}{3}\right) \\ .2 = \left(45^{o} = \frac{\pi}{4}\right) & .7 = \left((-945)^{o} = -\frac{21\,\pi}{4}\right) \\ .3 = \left(240^{o} = \frac{4\,\pi}{3}\right) & .8 = \left(1590^{o} = \frac{53\,\pi}{6}\right) \\ .4 = \left(330^{o} = \frac{11\,\pi}{6}\right) & .9 = \left(\left(\frac{270}{\pi}\right)^{o} = 1.500\right) \\ .5 = ((-1080)^{o} = -6\,\pi) & .10 = \left(\left(-\frac{810}{\pi}\right)^{o} = -4.500\right) \end{bmatrix}$$

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

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

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

$$Ans6 = \left[\mathrm{Tan}(\theta) - \mathrm{Sin}(\theta) = -\frac{27\sqrt{5}}{14} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans7 = \left[\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = -\frac{3\sqrt{89}}{40} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Csc}(\theta) - \mathrm{Cos}(\theta) = -\frac{21\sqrt{41}}{164} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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TrigonometryExercise3 Answers for No.14157

$$Ans1 = \begin{bmatrix} .1 = \left(\frac{3\pi}{2} = 270^{o}\right) & .6 = \left(\frac{37\pi}{4} = 1665^{o}\right) \\ .2 = \left(\frac{11\pi}{6} = 330^{o}\right) & .7 = \left(\frac{19\pi}{3} = 1140^{o}\right) \\ .3 = \left(-\frac{5\pi}{3} = (-300)^{o}\right) & .8 = \left(\frac{59\pi}{6} = 1770^{o}\right) \\ .4 = \left(\frac{3\pi}{4} = 135^{o}\right) & .9 = (7 = 401.070^{o}) \\ .5 = \left(\frac{7\pi}{2} = 630^{o}\right) & .10 = (-2.5 = (-143.239)^{o}) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \left(90^{o} = \frac{\pi}{2}\right) & .6 = \left((-960)^{o} = -\frac{16\pi}{3}\right) \\ .2 = \left(30^{o} = \frac{\pi}{6}\right) & .7 = \left((-855)^{o} = -\frac{19\pi}{4}\right) \\ .3 = \left((-120)^{o} = -\frac{2\pi}{3}\right) & .8 = \left((-1290)^{o} = -\frac{43\pi}{6}\right) \\ .4 = \left((-225)^{o} = -\frac{5\pi}{4}\right) & .9 = \left(\left(\frac{180}{\pi}\right)^{o} = 1.000\right) \\ .5 = (1440^{o} = 8\pi) & .10 = \left(\left(\frac{450}{\pi}\right)^{o} = 2.500\right) \end{bmatrix}$$

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

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

$$Ans5 = \left[\mathrm{Sin}(\theta) + \mathrm{Cos}(\theta) = \frac{5\sqrt{13}}{13} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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

$$Ans7 = \left[\mathrm{Csc}(\theta) + \mathrm{Tan}(\theta) = -\frac{5\sqrt{3}}{3} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

$$Ans8 = \left[\mathrm{Sec}(\theta) + \mathrm{Csc}(\theta) = \frac{4\sqrt{58}}{21} \right], \quad , \left[\frac{\sqrt{:)}}{:(} \right]$$

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