













TrigonometryExercise Answers for No.9763

$$Ans1 = \left[ \sin(A) = \frac{4\sqrt{41}}{41}, \cos(A) = \frac{5\sqrt{41}}{41}, \tan(A) = \frac{4}{5}, \csc(A) = \frac{\sqrt{41}}{4}, \sec(A) = \frac{\sqrt{41}}{5}, \cot(A) = \frac{5}{4} \right], \left[ \begin{array}{l} \sqrt{\cdot} \\ \cdot \\ \cdot \end{array} \right]$$

$$Ans2 = \left[ \sin(A) = \frac{\sqrt{11}}{6}, \cos(A) = \frac{5}{6}, \tan(A) = \frac{\sqrt{11}}{5}, \csc(A) = \frac{6\sqrt{11}}{11}, \sec(A) = \frac{6}{5}, \cot(A) = \frac{5\sqrt{11}}{11} \right], \left[ \begin{array}{l} \sqrt{\cdot} \\ \cdot \\ \cdot \end{array} \right]$$

$$Ans3 = \left[ \sin(A) = \frac{\sqrt{25-x^2}}{5}, \cos(A) = \frac{x}{5}, \tan(A) = \frac{\sqrt{25-x^2}}{x}, \csc(A) = \frac{5}{\sqrt{25-x^2}}, \sec(A) = \frac{5}{x}, \cot(A) = \frac{x}{\sqrt{25-x^2}} \right]$$

$$Ans4 = \left[ \sin(A) = \frac{2}{x}, \cos(A) = \frac{\sqrt{x^2-4}}{x}, \tan(A) = \frac{2}{\sqrt{x^2-4}}, \csc(A) = \frac{x}{2}, \sec(A) = \frac{x}{\sqrt{x^2-4}}, \cot(A) = \frac{\sqrt{x^2-4}}{2} \right]$$

$$Ans5 = \left[ \begin{array}{l} Ans.1 = [y = \cos(\theta), 2\pi, 1, [-1, 1]] \\ Ans.2 = [y = 4\sin(\theta), 2\pi, 4, [-4, 4]] \\ Ans.3 = \left[ y = \cos(4\theta), \frac{\pi}{2}, 1, [-1, 1] \right] \\ Ans.4 = [y = -3\cos(2\theta), \pi, 3, [-3, 3]] \\ Ans.5 = \left[ y = -\frac{1}{2}\sin(5\theta), \frac{2\pi}{5}, \frac{1}{2}, \left[ \frac{-1}{2}, \frac{1}{2} \right] \right] \\ Ans.6 = \left[ y = -2\cos\left(\frac{\theta}{3}\right) + 1, 6\pi, 2, [-1, 3] \right] \\ Ans.7 = \left[ y = -\frac{1}{4}\sin(6\pi\theta), \frac{1}{3}, \frac{1}{4}, \left[ \frac{-1}{4}, \frac{1}{4} \right] \right] \\ Ans.8 = \left[ y = -4\cos\left(\frac{\pi\theta}{6}\right) + 2, 12, 4, [-2, 6] \right] \end{array} \right], Ans6 = \left[ \begin{array}{l} [y = -\cos(x) + 2, \text{black}] \\ \left[ y = \frac{3}{2}\cos\left(\frac{\pi x}{3}\right) - 3, \text{cyan} \right] \\ [y = -2\sin(2\pi x), \text{red}] \\ \left[ y = \frac{1}{2}\sin\left(\frac{x}{2}\right), \text{blue} \right] \\ \left[ y = -\frac{1}{2}\cos\left(\frac{x}{3}\right) - 4, \text{green} \right] \end{array} \right], \left[ \begin{array}{l} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array} \right]$$

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TrigonometryExercise Answers for No.10375

$$\begin{aligned}
 \text{Ans1} &= \left[ \sin(A) = \frac{5}{8}, \cos(A) = \frac{\sqrt{39}}{8}, \tan(A) = \frac{5\sqrt{39}}{39}, \csc(A) = \frac{8}{5}, \sec(A) = \frac{8\sqrt{39}}{39}, \cot(A) = \frac{\sqrt{39}}{5}, \begin{bmatrix} \sqrt{39} \\ \cdot \\ \cdot \\ \cdot \end{bmatrix} \right] \\
 \text{Ans2} &= \left[ \sin(A) = \frac{8\sqrt{89}}{89}, \cos(A) = \frac{5\sqrt{89}}{89}, \tan(A) = \frac{8}{5}, \csc(A) = \frac{\sqrt{89}}{8}, \sec(A) = \frac{\sqrt{89}}{5}, \cot(A) = \frac{5}{8}, \begin{bmatrix} \sqrt{89} \\ \cdot \\ \cdot \\ \cdot \end{bmatrix} \right] \\
 \text{Ans3} &= \left[ \sin(A) = \frac{\sqrt{16-x^2}}{4}, \cos(A) = \frac{x}{4}, \tan(A) = \frac{\sqrt{16-x^2}}{x}, \csc(A) = \frac{4}{\sqrt{16-x^2}}, \sec(A) = \frac{4}{x}, \cot(A) = \frac{x}{\sqrt{16-x^2}} \right] \\
 \text{Ans4} &= \left[ \sin(A) = \frac{\sqrt{x^2-4}}{x}, \cos(A) = \frac{2}{x}, \tan(A) = \frac{\sqrt{x^2-4}}{2}, \csc(A) = \frac{x}{\sqrt{x^2-4}}, \sec(A) = \frac{x}{2}, \cot(A) = \frac{2}{\sqrt{x^2-4}} \right]
 \end{aligned}$$

$$\begin{aligned}
 \text{Ans5} &= \left[ \begin{array}{l} \text{Ans.1} = [y = \cos(\theta), 2\pi, 1, [-1, 1]] \\ \text{Ans.2} = [y = -4 \sin(\theta), 2\pi, 4, [-4, 4]] \\ \text{Ans.3} = \left[ y = \sin(3\theta), \frac{2\pi}{3}, 1, [-1, 1] \right] \\ \text{Ans.4} = \left[ y = -4 \cos(3\theta), \frac{2\pi}{3}, 4, [-4, 4] \right] \\ \text{Ans.5} = \left[ y = -\frac{1}{2} \sin(3\theta), \frac{2\pi}{3}, \frac{1}{2}, \left[ \frac{-1}{2}, \frac{1}{2} \right] \right] \\ \text{Ans.6} = \left[ y = -2 \sin\left(\frac{\theta}{6}\right) - 4, 12\pi, 2, [-6, -2] \right] \\ \text{Ans.7} = [y = -6 \cos(2\pi\theta), 1, 6, [-6, 6]] \\ \text{Ans.8} = \left[ y = -\frac{1}{4} \cos\left(\frac{\pi\theta}{3}\right) - 1, 6, \frac{1}{4}, \left[ \frac{-5}{4}, \frac{-3}{4} \right] \right] \end{array} \right], \text{Ans6} = \left[ \begin{array}{l} \left[ y = 2 \cos\left(\frac{\pi x}{2}\right) + 3, \text{cyan} \right] \\ \left[ y = -\frac{3}{2} \cos(2x), \text{red} \right] \\ \left[ y = 2 \sin\left(\frac{x}{3}\right) - 4, \text{blue} \right] \\ \left[ y = -\sin(x) + 3, \text{black} \right] \\ \left[ y = 2 \cos\left(\frac{\pi x}{2}\right), \text{green} \right] \end{array} \right], \begin{bmatrix} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{bmatrix}
 \end{aligned}$$

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TrigonometryExercise Answers for No.13197

$$Ans1 = \left[ \sin(A) = \frac{3}{4}, \cos(A) = \frac{\sqrt{7}}{4}, \tan(A) = \frac{3\sqrt{7}}{7}, \csc(A) = \frac{4}{3}, \sec(A) = \frac{4\sqrt{7}}{7}, \cot(A) = \frac{\sqrt{7}}{3}, \begin{array}{l} \left[ \frac{\sqrt{7}}{3} \right] \\ \text{:(} \end{array} \right]$$

$$Ans2 = \left[ \sin(A) = \frac{5\sqrt{41}}{41}, \cos(A) = \frac{4\sqrt{41}}{41}, \tan(A) = \frac{5}{4}, \csc(A) = \frac{\sqrt{41}}{5}, \sec(A) = \frac{\sqrt{41}}{4}, \cot(A) = \frac{4}{5}, \begin{array}{l} \left[ \frac{\sqrt{41}}{5} \right] \\ \text{:(} \end{array} \right]$$

$$Ans3 = \left[ \sin(A) = \frac{\sqrt{9-x^2}}{3}, \cos(A) = \frac{x}{3}, \tan(A) = \frac{\sqrt{9-x^2}}{x}, \csc(A) = \frac{3}{\sqrt{9-x^2}}, \sec(A) = \frac{3}{x}, \cot(A) = \frac{x}{\sqrt{9-x^2}} \right]$$

$$Ans4 = \left[ \sin(A) = \frac{\sqrt{49-x^2}}{7}, \cos(A) = \frac{x}{7}, \tan(A) = \frac{\sqrt{49-x^2}}{x}, \csc(A) = \frac{7}{\sqrt{49-x^2}}, \sec(A) = \frac{7}{x}, \cot(A) = \frac{x}{\sqrt{49-x^2}} \right]$$

$$Ans5 = \left[ \begin{array}{l} Ans.1 = [y = \cos(\theta), 2\pi, 1, [-1, 1]] \\ Ans.2 = [y = -6\sin(\theta), 2\pi, 6, [-6, 6]] \\ Ans.3 = [y = \cos(4\theta), \frac{\pi}{2}, 1, [-1, 1]] \\ Ans.4 = [y = 3\sin(5\theta), \frac{2\pi}{5}, 3, [-3, 3]] \\ Ans.5 = [y = \frac{1}{2}\cos(3\theta), \frac{2\pi}{3}, \frac{1}{2}, \left[\frac{-1}{2}, \frac{1}{2}\right]] \\ Ans.6 = [y = -5\cos\left(\frac{\theta}{2}\right) + 4, 4\pi, 5, [-1, 9]] \\ Ans.7 = [y = -\frac{1}{2}\sin\left(\frac{\pi\theta}{4}\right), 8, \frac{1}{2}, \left[\frac{-1}{2}, \frac{1}{2}\right]] \\ Ans.8 = [y = -4\sin(6\pi\theta) + 3, \frac{1}{3}, 4, [-1, 7]] \end{array} \right], Ans6 = \left[ \begin{array}{l} \left[ y = -\frac{1}{2}\sin(2x), \text{black} \right] \\ \left[ y = -\frac{3}{2}\cos\left(\frac{x}{3}\right) - 2, \text{green} \right] \\ [y = \sin(x) + 1, \text{blue}] \\ \left[ y = -2\sin\left(\frac{\pi x}{2}\right) - 3, \text{red} \right] \\ \left[ y = \frac{5}{2}\cos\left(\frac{\pi x}{2}\right), \text{cyan} \right] \end{array} \right], \begin{array}{l} \text{:)} \\ \text{:(} \\ \text{:)} \\ \text{:(} \\ \text{:)} \\ \text{:(} \\ \text{:)} \\ \text{:(} \\ \text{:)} \\ \text{:(} \end{array}$$

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Trigonometry Exercise Answers for No.14005

$$Ans1 = \left[ \sin(A) = \frac{\sqrt{39}}{8}, \cos(A) = \frac{5}{8}, \tan(A) = \frac{\sqrt{39}}{5}, \csc(A) = \frac{8\sqrt{39}}{39}, \sec(A) = \frac{8}{5}, \cot(A) = \frac{5\sqrt{39}}{39} \right], \left[ \begin{matrix} \sqrt{\cdot} \\ : \\ ( \end{matrix} \right]$$

$$Ans2 = \left[ \sin(A) = \frac{\sqrt{13}}{7}, \cos(A) = \frac{6}{7}, \tan(A) = \frac{\sqrt{13}}{6}, \csc(A) = \frac{7\sqrt{13}}{13}, \sec(A) = \frac{7}{6}, \cot(A) = \frac{6\sqrt{13}}{13} \right], \left[ \begin{matrix} \sqrt{\cdot} \\ : \\ ( \end{matrix} \right]$$

$$Ans3 = \left[ \sin(A) = \frac{3}{\sqrt{9+x^2}}, \cos(A) = \frac{x}{\sqrt{9+x^2}}, \tan(A) = \frac{3}{x}, \csc(A) = \frac{\sqrt{9+x^2}}{3}, \sec(A) = \frac{\sqrt{9+x^2}}{x}, \cot(A) = \frac{x}{3} \right]$$

$$Ans4 = \left[ \sin(A) = \frac{6}{x}, \cos(A) = \frac{\sqrt{x^2-36}}{x}, \tan(A) = \frac{6}{\sqrt{x^2-36}}, \csc(A) = \frac{x}{6}, \sec(A) = \frac{x}{\sqrt{x^2-36}}, \cot(A) = \frac{\sqrt{x^2-36}}{6} \right]$$

$Ans5 = \left[ \begin{array}{l} Ans.1 = [y = \sin(\theta), 2\pi, 1, [-1, 1]] \\ Ans.2 = [y = 3\cos(\theta), 2\pi, 3, [-3, 3]] \\ Ans.3 = \left[ y = \sin(4\theta), \frac{\pi}{2}, 1, [-1, 1] \right] \\ Ans.4 = [y = -3\cos(2\theta), \pi, 3, [-3, 3]] \\ Ans.5 = \left[ y = 6\cos\left(\frac{\theta}{3}\right), 6\pi, 6, [-6, 6] \right] \\ Ans.6 = \left[ y = -\frac{1}{6}\cos(5\theta) - 4, \frac{2\pi}{5}, \frac{1}{6}, \left[\frac{-25}{6}, \frac{-23}{6}\right] \right] \\ Ans.7 = \left[ y = -\frac{1}{4}\cos(6\pi\theta), \frac{1}{3}, \frac{1}{4}, \left[\frac{-1}{4}, \frac{1}{4}\right] \right] \\ Ans.8 = \left[ y = -6\cos\left(\frac{\pi\theta}{2}\right) + 2, 4, 6, [-4, 8] \right] \end{array} \right],$	$Ans6 = \left[ \begin{array}{l} \left[ y = -3\cos\left(\frac{x}{3}\right), blue \right] \\ [y = -\sin(x), cyan] \\ \left[ y = \frac{3}{2}\sin\left(\frac{\pi x}{2}\right), green \right] \\ \left[ y = 2\sin\left(\frac{x}{2}\right) - 3, red \right] \\ [y = 2\cos(2\pi x) - 4, black] \end{array} \right],$	$\left[ \begin{matrix} \cdot \\ : \\ ( \\ \cdot \\ : \\ ( \\ \cdot \\ : \\ ( \\ \cdot \\ : \\ ( \\ \cdot \\ : \\ ( \\ \cdot \\ : \\ ( \\ \cdot \\ : \\ ( \\ \cdot \\ : \\ ( \\ \cdot \\ : \\ ( \end{matrix} \right]$
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