



$$Ans1 = \left[ \sin(A) = \frac{\sqrt{33}}{7}, \cos(A) = \frac{4}{7}, \tan(A) = \frac{\sqrt{33}}{4}, \csc(A) = \frac{7\sqrt{33}}{33}, \sec(A) = \frac{7}{4}, \cot(A) = \frac{4\sqrt{33}}{33} \right], \left[ \begin{array}{c} \sqrt{:)} \\ :( \end{array} \right]$$

$$Ans2 = \left[ \sin(A) = \frac{\sqrt{7}}{4}, \cos(A) = \frac{3}{4}, \tan(A) = \frac{\sqrt{7}}{3}, \csc(A) = \frac{4\sqrt{7}}{7}, \sec(A) = \frac{4}{3}, \cot(A) = \frac{3\sqrt{7}}{7} \right], \left[ \begin{array}{c} \sqrt{:)} \\ :( \end{array} \right]$$

$$Ans3 = \left[ \sin(A) = \frac{x}{\sqrt{1+x^2}}, \cos(A) = \frac{1}{\sqrt{1+x^2}}, \tan(A) = x, \csc(A) = \frac{\sqrt{1+x^2}}{x}, \sec(A) = \sqrt{1+x^2}, \cot(A) = \frac{1}{x} \right]$$

$$Ans4 = \left[ \sin(A) = x, \cos(A) = \sqrt{1-x^2}, \tan(A) = \frac{x}{\sqrt{1-x^2}}, \csc(A) = \frac{1}{x}, \sec(A) = \frac{1}{\sqrt{1-x^2}}, \cot(A) = \frac{\sqrt{1-x^2}}{x} \right]$$

$$Ans5 = \left[ \begin{array}{l} Ans.1 = [y = \cos(\theta), 2\pi, 1, [-1, 1]] \\ Ans.2 = [y = 6 \sin(\theta), 2\pi, 6, [-6, 6]] \\ Ans.3 = [y = \sin(2\theta), \pi, 1, [-1, 1]] \\ Ans.4 = [y = -6 \sin(5\theta), \frac{2\pi}{5}, 6, [-6, 6]] \\ Ans.5 = [y = -\frac{1}{2} \cos(3\theta), \frac{2\pi}{3}, \frac{1}{2}, \left[\frac{-1}{2}, \frac{1}{2}\right]] \\ Ans.6 = [y = -6 \cos\left(\frac{\theta}{5}\right) + 3, 10\pi, 6, [-3, 9]] \\ Ans.7 = [y = -4 \sin\left(\frac{\pi\theta}{2}\right), 4, 4, [-4, 4]] \\ Ans.8 = [y = -\frac{1}{3} \sin(4\pi\theta) + 5, \frac{1}{2}, \frac{1}{3}, \left[\frac{14}{3}, \frac{16}{3}\right]] \end{array} \right], Ans6 = \left[ \begin{array}{l} [y = -\sin(x) + 3, blue] \\ [y = \frac{5}{2} \cos\left(\frac{x}{2}\right), green] \\ [y = -\frac{5}{2} \sin(2\pi x) + 2, red] \\ [y = 3 \cos\left(\frac{x}{3}\right) - 3, black] \\ [y = -\frac{5}{2} \cos(2\pi x), cyan] \end{array} \right], \left[ \begin{array}{c} :) \\ :( \\ :) \\ :( \\ :) \\ :( \\ :) \\ :( \\ :) \\ :( \\ :) \\ :( \end{array} \right]$$

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TrigonometryExercise Answers for No.10152

$$\begin{aligned}
 \text{Ans1} &= \left[ \sin(A) = \frac{6\sqrt{61}}{61}, \cos(A) = \frac{5\sqrt{61}}{61}, \tan(A) = \frac{6}{5}, \csc(A) = \frac{\sqrt{61}}{6}, \sec(A) = \frac{\sqrt{61}}{5}, \cot(A) = \frac{5}{6} \right], \left[ \begin{matrix} \sqrt{\cdot} \\ \cdot \\ \cdot \\ \cdot \end{matrix} \right] \\
 \text{Ans2} &= \left[ \sin(A) = \frac{6\sqrt{85}}{85}, \cos(A) = \frac{7\sqrt{85}}{85}, \tan(A) = \frac{6}{7}, \csc(A) = \frac{\sqrt{85}}{6}, \sec(A) = \frac{\sqrt{85}}{7}, \cot(A) = \frac{7}{6} \right], \left[ \begin{matrix} \sqrt{\cdot} \\ \cdot \\ \cdot \\ \cdot \end{matrix} \right] \\
 \text{Ans3} &= \left[ \sin(A) = \frac{7}{x}, \cos(A) = \frac{\sqrt{-49+x^2}}{x}, \tan(A) = \frac{7}{\sqrt{-49+x^2}}, \csc(A) = \frac{x}{7}, \sec(A) = \frac{x}{\sqrt{-49+x^2}}, \cot(A) = \frac{\sqrt{-49+x^2}}{7} \right] \\
 \text{Ans4} &= \left[ \sin(A) = \frac{\sqrt{x^2-36}}{x}, \cos(A) = \frac{6}{x}, \tan(A) = \frac{\sqrt{x^2-36}}{6}, \csc(A) = \frac{x}{\sqrt{x^2-36}}, \sec(A) = \frac{x}{6}, \cot(A) = \frac{6}{\sqrt{x^2-36}} \right]
 \end{aligned}$$

$$\begin{aligned}
 \text{Ans5} &= \left[ \begin{aligned}
 &\text{Ans.1} = [y = \sin(\theta), 2\pi, 1, [-1, 1]] \\
 &\text{Ans.2} = [y = -6\cos(\theta), 2\pi, 6, [-6, 6]] \\
 &\text{Ans.3} = \left[ y = \sin(5\theta), \frac{2\pi}{5}, 1, [-1, 1] \right] \\
 &\text{Ans.4} = [y = 5\sin(2\theta), \pi, 5, [-5, 5]] \\
 &\text{Ans.5} = \left[ y = -5\sin\left(\frac{\theta}{4}\right), 8\pi, 5, [-5, 5] \right] \\
 &\text{Ans.6} = \left[ y = -\frac{1}{5}\sin(4\theta) + 1, \frac{\pi}{2}, \frac{1}{5}, \left[\frac{4}{5}, \frac{6}{5}\right] \right] \\
 &\text{Ans.7} = \left[ y = -\frac{1}{4}\cos\left(\frac{\pi\theta}{5}\right), 10, \frac{1}{4}, \left[\frac{-1}{4}, \frac{1}{4}\right] \right] \\
 &\text{Ans.8} = \left[ y = -4\sin(5\pi\theta) - 1, \frac{2}{5}, 4, [-5, 3] \right]
 \end{aligned} \right], \text{Ans6} = \left[ \begin{aligned}
 &\left[ y = -\frac{3}{2}\cos(2\pi x) + 2, \text{black} \right] \\
 &\left[ y = 3\cos\left(\frac{x}{2}\right), \text{green} \right] \\
 &\left[ y = -\frac{1}{2}\sin\left(\frac{x}{2}\right) - 2, \text{cyan} \right] \\
 &\left[ y = \sin(x) - 3, \text{red} \right] \\
 &\left[ y = \frac{1}{2}\cos\left(\frac{\pi x}{2}\right), \text{blue} \right]
 \end{aligned} \right], \left[ \begin{matrix} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{matrix} \right]
 \end{aligned}$$





TrigonometryExercise Answers for No.11841

$$Ans1 = \left[ \sin(A) = \frac{2}{3}, \cos(A) = \frac{\sqrt{5}}{3}, \tan(A) = \frac{2\sqrt{5}}{5}, \csc(A) = \frac{3}{2}, \sec(A) = \frac{3\sqrt{5}}{5}, \cot(A) = \frac{\sqrt{5}}{2} \right], \begin{bmatrix} \sqrt{:} \\ :(: \end{bmatrix}$$

$$Ans2 = \left[ \sin(A) = \frac{\sqrt{65}}{9}, \cos(A) = \frac{4}{9}, \tan(A) = \frac{\sqrt{65}}{4}, \csc(A) = \frac{9\sqrt{65}}{65}, \sec(A) = \frac{9}{4}, \cot(A) = \frac{4\sqrt{65}}{65} \right], \begin{bmatrix} \sqrt{:} \\ :(: \end{bmatrix}$$

$$Ans3 = \left[ \sin(A) = \frac{x}{\sqrt{36+x^2}}, \cos(A) = \frac{6}{\sqrt{36+x^2}}, \tan(A) = \frac{x}{6}, \csc(A) = \frac{\sqrt{36+x^2}}{x}, \sec(A) = \frac{\sqrt{36+x^2}}{6}, \cot(A) = \frac{6}{x} \right]$$

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

$$Ans5 = \begin{bmatrix} Ans.1 = [y = \cos(\theta), 2\pi, 1, [-1, 1]] \\ Ans.2 = [y = 5 \sin(\theta), 2\pi, 5, [-5, 5]] \\ Ans.3 = \left[ y = \cos(5\theta), \frac{2\pi}{5}, 1, [-1, 1] \right] \\ Ans.4 = \left[ y = -3 \cos(4\theta), \frac{\pi}{2}, 3, [-3, 3] \right] \\ Ans.5 = \left[ y = 4 \cos\left(\frac{\theta}{5}\right), 10\pi, 4, [-4, 4] \right] \\ Ans.6 = \left[ y = \frac{1}{6} \sin(2\theta) - 3, \pi, \frac{1}{6}, \left[\frac{-19}{6}, \frac{-17}{6}\right] \right] \\ Ans.7 = \left[ y = -\frac{1}{2} \cos(5\pi\theta), \frac{2}{5}, \frac{1}{2}, \left[\frac{-1}{2}, \frac{1}{2}\right] \right] \\ Ans.8 = \left[ y = -6 \sin\left(\frac{\pi\theta}{3}\right) - 2, 6, 6, [-8, 4] \right] \end{bmatrix}, Ans6 = \begin{bmatrix} \left[ y = -\frac{1}{2} \sin\left(\frac{x}{2}\right) + 3, \textit{green} \right] \\ \left[ y = \frac{1}{2} \sin(2\pi x) + 4, \textit{cyan} \right] \\ \left[ y = 2 \sin\left(\frac{\pi x}{2}\right), \textit{black} \right] \\ \left[ y = -3 \cos\left(\frac{x}{3}\right), \textit{red} \right] \\ [y = -\cos(x) - 3, \textit{blue}] \end{bmatrix}, \begin{bmatrix} :/ \\ :(: \\ :/ \\ :/ \\ :/ \\ :/ \\ :/ \\ :/ \\ :/ \\ :/ \\ :/ \\ :/ \end{bmatrix}$$

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Trigonometry Exercise Answers for No.11842

$$Ans1 = \left[ \sin(A) = \frac{4\sqrt{2}}{9}, \cos(A) = \frac{7}{9}, \tan(A) = \frac{4\sqrt{2}}{7}, \csc(A) = \frac{9\sqrt{2}}{8}, \sec(A) = \frac{9}{7}, \cot(A) = \frac{7\sqrt{2}}{8} \right], \left[ \frac{\sqrt{2}}{9} \right]$$

$$Ans2 = \left[ \sin(A) = \frac{3\sqrt{13}}{13}, \cos(A) = \frac{2\sqrt{13}}{13}, \tan(A) = \frac{3}{2}, \csc(A) = \frac{\sqrt{13}}{3}, \sec(A) = \frac{\sqrt{13}}{2}, \cot(A) = \frac{2}{3} \right], \left[ \frac{\sqrt{13}}{3} \right]$$

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

$$Ans4 = \left[ \sin(A) = \frac{x}{4}, \cos(A) = \frac{\sqrt{16-x^2}}{4}, \tan(A) = \frac{x}{\sqrt{16-x^2}}, \csc(A) = \frac{4}{x}, \sec(A) = \frac{4}{\sqrt{16-x^2}}, \cot(A) = \frac{\sqrt{16-x^2}}{x} \right]$$

$$Ans5 = \left[ \begin{array}{l} Ans.1 = [y = \cos(\theta), 2\pi, 1, [-1, 1]] \\ Ans.2 = [y = 5 \sin(\theta), 2\pi, 5, [-5, 5]] \\ Ans.3 = [y = \sin(5\theta), \frac{2\pi}{5}, 1, [-1, 1]] \\ Ans.4 = [y = 5 \sin(3\theta), \frac{2\pi}{3}, 5, [-5, 5]] \\ Ans.5 = [y = -4 \cos\left(\frac{\theta}{5}\right), 10\pi, 4, [-4, 4]] \\ Ans.6 = [y = -\frac{1}{5} \cos(2\theta) + 2, \pi, \frac{1}{5}, \left[\frac{9}{5}, \frac{11}{5}\right]] \\ Ans.7 = [y = -4 \sin\left(\frac{\pi\theta}{5}\right), 10, 4, [-4, 4]] \\ Ans.8 = [y = -\frac{1}{5} \sin(4\pi\theta) - 1, \frac{1}{2}, \frac{1}{5}, \left[\frac{-6}{5}, \frac{-4}{5}\right]] \end{array} \right], Ans6 = \left[ \begin{array}{l} [y = \frac{5}{2} \cos(2x) - 2, cyan] \\ [y = -\frac{3}{2} \sin\left(\frac{\pi x}{3}\right) - 3, red] \\ [y = \sin(x) - 3, blue] \\ [y = 2 \cos(2\pi x), green] \\ [y = -\frac{5}{2} \sin\left(\frac{x}{3}\right), black] \end{array} \right], \left[ \begin{array}{l} \frac{5}{2} \\ \frac{3}{2} \\ \frac{5}{2} \\ \frac{3}{2} \\ \frac{5}{2} \\ \frac{3}{2} \\ \frac{5}{2} \end{array} \right]$$

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$$\begin{aligned} \text{Ans1} &= \left[ \sin(A) = \frac{\sqrt{7}}{4}, \cos(A) = \frac{3}{4}, \tan(A) = \frac{\sqrt{7}}{3}, \csc(A) = \frac{4\sqrt{7}}{7}, \sec(A) = \frac{4}{3}, \cot(A) = \frac{3\sqrt{7}}{7} \right], \left[ \begin{array}{c} \sqrt{\phantom{0}} \\ \phantom{0} \end{array} \right] \\ \text{Ans2} &= \left[ \sin(A) = \frac{7\sqrt{74}}{74}, \cos(A) = \frac{5\sqrt{74}}{74}, \tan(A) = \frac{7}{5}, \csc(A) = \frac{\sqrt{74}}{7}, \sec(A) = \frac{\sqrt{74}}{5}, \cot(A) = \frac{5}{7} \right], \left[ \begin{array}{c} \sqrt{\phantom{0}} \\ \phantom{0} \end{array} \right] \\ \text{Ans3} &= \left[ \sin(A) = \frac{x}{\sqrt{9+x^2}}, \cos(A) = \frac{3}{\sqrt{9+x^2}}, \tan(A) = \frac{x}{3}, \csc(A) = \frac{\sqrt{9+x^2}}{x}, \sec(A) = \frac{\sqrt{9+x^2}}{3}, \cot(A) = \frac{3}{x} \right] \\ \text{Ans4} &= \left[ \sin(A) = \frac{\sqrt{x^2-25}}{x}, \cos(A) = \frac{5}{x}, \tan(A) = \frac{\sqrt{x^2-25}}{5}, \csc(A) = \frac{x}{\sqrt{x^2-25}}, \sec(A) = \frac{x}{5}, \cot(A) = \frac{5}{\sqrt{x^2-25}} \right] \end{aligned}$$

$$\begin{aligned} &\left[ \begin{array}{l} \text{Ans.1} = [y = \cos(\theta), 2\pi, 1, [-1, 1]] \\ \text{Ans.2} = [y = 5 \sin(\theta), 2\pi, 5, [-5, 5]] \\ \text{Ans.3} = [y = \sin(6\theta), \frac{\pi}{3}, 1, [-1, 1]] \\ \text{Ans.4} = [y = -6 \cos(4\theta), \frac{\pi}{2}, 6, [-6, 6]] \\ \text{Ans.5} = [y = -\frac{1}{5} \sin(3\theta), \frac{2\pi}{3}, \frac{1}{5}, [\frac{-1}{5}, \frac{1}{5}]] \\ \text{Ans.6} = [y = 6 \sin\left(\frac{\theta}{4}\right) + 4, 8\pi, 6, [-2, 10]] \\ \text{Ans.7} = [y = -\frac{1}{6} \sin(4\pi\theta), \frac{1}{2}, \frac{1}{6}, [\frac{-1}{6}, \frac{1}{6}]] \\ \text{Ans.8} = [y = -5 \sin\left(\frac{\pi\theta}{6}\right) + 2, 12, 5, [-3, 7]] \end{array} \right], \text{Ans6} = \left[ \begin{array}{l} [y = 2 \cos(2x), cyan] \\ [y = -\frac{5}{2} \sin\left(\frac{x}{2}\right) + 4, green] \\ [y = -\frac{5}{2} \cos\left(\frac{\pi x}{2}\right) + 2, black] \\ [y = \sin(x), blue] \\ [y = 3 \sin(2\pi x), red] \end{array} \right] \end{aligned}$$

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$$Ans1 = \left[ \sin(A) = \frac{6\sqrt{85}}{85}, \cos(A) = \frac{7\sqrt{85}}{85}, \tan(A) = \frac{6}{7}, \csc(A) = \frac{\sqrt{85}}{6}, \sec(A) = \frac{\sqrt{85}}{7}, \cot(A) = \frac{7}{6} \right], \begin{bmatrix} \sqrt{\cdot} \\ \cdot \end{bmatrix}$$

$$Ans2 = \left[ \sin(A) = \frac{3\sqrt{58}}{58}, \cos(A) = \frac{7\sqrt{58}}{58}, \tan(A) = \frac{3}{7}, \csc(A) = \frac{\sqrt{58}}{3}, \sec(A) = \frac{\sqrt{58}}{7}, \cot(A) = \frac{7}{3} \right], \begin{bmatrix} \sqrt{\cdot} \\ \cdot \end{bmatrix}$$

$$Ans3 = \left[ \sin(A) = \frac{\sqrt{16-x^2}}{4}, \cos(A) = \frac{x}{4}, \tan(A) = \frac{\sqrt{16-x^2}}{x}, \csc(A) = \frac{4}{\sqrt{16-x^2}}, \sec(A) = \frac{4}{x}, \cot(A) = \frac{x}{\sqrt{16-x^2}} \right]$$

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

$$Ans5 = \left[ \begin{array}{l} Ans.1 = [y = \cos(\theta), 2\pi, 1, [-1, 1]] \\ Ans.2 = [y = 3 \sin(\theta), 2\pi, 3, [-3, 3]] \\ Ans.3 = [y = \cos(2\theta), \pi, 1, [-1, 1]] \\ Ans.4 = \left[ y = -4 \cos(3\theta), \frac{2\pi}{3}, 4, [-4, 4] \right] \\ Ans.5 = \left[ y = -\frac{1}{3} \sin(4\theta), \frac{\pi}{2}, \frac{1}{3}, \left[ \frac{-1}{3}, \frac{1}{3} \right] \right] \\ Ans.6 = \left[ y = -2 \sin\left(\frac{\theta}{6}\right) - 5, 12\pi, 2, [-7, -3] \right] \\ Ans.7 = \left[ y = -\frac{1}{3} \sin(6\pi\theta), \frac{1}{3}, \frac{1}{3}, \left[ \frac{-1}{3}, \frac{1}{3} \right] \right] \\ Ans.8 = \left[ y = -4 \cos\left(\frac{\pi\theta}{3}\right) - 4, 6, 4, [-8, 0] \right] \end{array} \right], \begin{array}{l} Ans6 = \left[ \begin{array}{l} [y = -\sin(x) - 1, blue] \\ [y = -3 \sin\left(\frac{\pi x}{2}\right), green] \\ [y = 2 \cos\left(\frac{\pi x}{3}\right) + 4, black] \\ [y = \frac{5}{2} \cos\left(\frac{x}{2}\right), cyan] \\ [y = -\frac{1}{2} \sin\left(\frac{x}{3}\right) - 3, red] \end{array} \right], \begin{bmatrix} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{bmatrix} \end{array}$$

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