

Trigonometry Exercise Answers for No.9854

$$Ans1 = \left[\sin(A) = \frac{2\sqrt{10}}{7}, \cos(A) = \frac{3}{7}, \tan(A) = \frac{2\sqrt{10}}{3}, \csc(A) = \frac{7\sqrt{10}}{20}, \sec(A) = \frac{7}{3}, \cot(A) = \frac{3\sqrt{10}}{20} \right], \left[\frac{\sqrt{:}}{:(} \right]$$

$$Ans2 = \left[\sin(A) = \frac{3}{7}, \cos(A) = \frac{2\sqrt{10}}{7}, \tan(A) = \frac{3\sqrt{10}}{20}, \csc(A) = \frac{7}{3}, \sec(A) = \frac{7\sqrt{10}}{20}, \cot(A) = \frac{2\sqrt{10}}{3} \right], \left[\frac{\sqrt{:}}{:(} \right]$$

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

$$Ans4 = \left[\sin(A) = \frac{\sqrt{x^2-9}}{x}, \cos(A) = \frac{3}{x}, \tan(A) = \frac{\sqrt{x^2-9}}{3}, \csc(A) = \frac{x}{\sqrt{x^2-9}}, \sec(A) = \frac{x}{3}, \cot(A) = \frac{3}{\sqrt{x^2-9}} \right]$$

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

:
:
:

Trigonometry Exercise Answers for No.10278

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

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

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

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

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

:
:
:

$$\begin{aligned}
 Ans1 &= \left[\sin(A) = \frac{3}{5}, \cos(A) = \frac{4}{5}, \tan(A) = \frac{3}{4}, \csc(A) = \frac{5}{3}, \sec(A) = \frac{5}{4}, \cot(A) = \frac{4}{3} \right], \left[\frac{\sqrt{(\cdot)}}{:(\cdot)} \right] \\
 Ans2 &= \left[\sin(A) = \frac{\sqrt{17}}{9}, \cos(A) = \frac{8}{9}, \tan(A) = \frac{\sqrt{17}}{8}, \csc(A) = \frac{9\sqrt{17}}{17}, \sec(A) = \frac{9}{8}, \cot(A) = \frac{8\sqrt{17}}{17} \right], \left[\frac{\sqrt{(\cdot)}}{:(\cdot)} \right] \\
 Ans3 &= \left[\sin(A) = \frac{\sqrt{x^2-9}}{x}, \cos(A) = \frac{3}{x}, \tan(A) = \frac{\sqrt{x^2-9}}{3}, \csc(A) = \frac{x}{\sqrt{x^2-9}}, \sec(A) = \frac{x}{3}, \cot(A) = \frac{3}{\sqrt{x^2-9}} \right] \\
 Ans4 &= \left[\sin(A) = \frac{4}{x}, \cos(A) = \frac{\sqrt{x^2-16}}{x}, \tan(A) = \frac{4}{\sqrt{x^2-16}}, \csc(A) = \frac{x}{4}, \sec(A) = \frac{x}{\sqrt{x^2-16}}, \cot(A) = \frac{\sqrt{x^2-16}}{4} \right]
 \end{aligned}$$

$$\begin{aligned}
 \begin{aligned}
 & \begin{aligned}
 & \begin{aligned}
 & \begin{aligned}
 & \begin{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}
 \end{aligned}$$

:
 :
 :

Trigonometry Exercise Answers for No.12586

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

$$Ans2 = \left[\sin(A) = \frac{8\sqrt{89}}{89}, \cos(A) = \frac{5\sqrt{89}}{89}, \tan(A) = \frac{8}{5}, \csc(A) = \frac{\sqrt{89}}{8}, \sec(A) = \frac{\sqrt{89}}{5}, \cot(A) = \frac{5}{8} \right], \left[\begin{matrix} \sqrt{7} \\ : \\ : \end{matrix} \right]$$

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

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

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

:
:
:

TrigonometryExercise Answers for No.645109

$$Ans1 = \left[\sin(A) = \frac{2\sqrt{10}}{7}, \cos(A) = \frac{3}{7}, \tan(A) = \frac{2\sqrt{10}}{3}, \csc(A) = \frac{7\sqrt{10}}{20}, \sec(A) = \frac{7}{3}, \cot(A) = \frac{3\sqrt{10}}{20}, \right], \left[\frac{\sqrt{:}}{:(} \right]$$

$$Ans2 = \left[\sin(A) = \frac{2\sqrt{29}}{29}, \cos(A) = \frac{5\sqrt{29}}{29}, \tan(A) = \frac{2}{5}, \csc(A) = \frac{\sqrt{29}}{2}, \sec(A) = \frac{\sqrt{29}}{5}, \cot(A) = \frac{5}{2}, \right], \left[\frac{\sqrt{:}}{:(} \right]$$

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

$$Ans4 = \left[\sin(A) = \frac{\sqrt{9-x^2}}{3}, \cos(A) = \frac{x}{3}, \tan(A) = \frac{\sqrt{9-x^2}}{x}, \csc(A) = \frac{3}{\sqrt{9-x^2}}, \sec(A) = \frac{3}{x}, \cot(A) = \frac{x}{\sqrt{9-x^2}} \right]$$

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

:
:
:

TrigonometryExercise Answers for No.645110

$$Ans1 = \left[\sin(A) = \frac{\sqrt{55}}{8}, \cos(A) = \frac{3}{8}, \tan(A) = \frac{\sqrt{55}}{3}, \csc(A) = \frac{8\sqrt{55}}{55}, \sec(A) = \frac{8}{3}, \cot(A) = \frac{3\sqrt{55}}{55} \right], \left[\begin{array}{c} \sqrt{:} \\ :(\end{array} \right]$$

$$Ans2 = \left[\sin(A) = \frac{\sqrt{17}}{9}, \cos(A) = \frac{8}{9}, \tan(A) = \frac{\sqrt{17}}{8}, \csc(A) = \frac{9\sqrt{17}}{17}, \sec(A) = \frac{9}{8}, \cot(A) = \frac{8\sqrt{17}}{17} \right], \left[\begin{array}{c} \sqrt{:} \\ :(\end{array} \right]$$

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

$$Ans4 = \left[\sin(A) = \frac{x}{\sqrt{x^2+9}}, \cos(A) = \frac{3}{\sqrt{x^2+9}}, \tan(A) = \frac{x}{3}, \csc(A) = \frac{\sqrt{x^2+9}}{x}, \sec(A) = \frac{\sqrt{x^2+9}}{3}, \cot(A) = \frac{3}{x} \right]$$

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

:
:
:

TrigonometryExercise Answers for No.645115

$$Ans1 = \left[\sin(A) = \frac{2\sqrt{14}}{9}, \cos(A) = \frac{5}{9}, \tan(A) = \frac{2\sqrt{14}}{5}, \csc(A) = \frac{9\sqrt{14}}{28}, \sec(A) = \frac{9}{5}, \cot(A) = \frac{5\sqrt{14}}{28} \right], \left[\begin{array}{c} \sqrt{:} \\ :(\end{array} \right]$$

$$Ans2 = \left[\sin(A) = \frac{5}{8}, \cos(A) = \frac{\sqrt{39}}{8}, \tan(A) = \frac{5\sqrt{39}}{39}, \csc(A) = \frac{8}{5}, \sec(A) = \frac{8\sqrt{39}}{39}, \cot(A) = \frac{\sqrt{39}}{5} \right], \left[\begin{array}{c} \sqrt{:} \\ :(\end{array} \right]$$

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

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

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

:
:
:

TrigonometryExercise Answers for No.645119

$$Ans1 = \left[\sin(A) = \frac{\sqrt{55}}{8}, \cos(A) = \frac{3}{8}, \tan(A) = \frac{\sqrt{55}}{3}, \csc(A) = \frac{8\sqrt{55}}{55}, \sec(A) = \frac{8}{3}, \cot(A) = \frac{3\sqrt{55}}{55} \right], \left[\begin{array}{l} \sqrt{:(} \\ :(} \end{array} \right]$$

$$Ans2 = \left[\sin(A) = \frac{5\sqrt{61}}{61}, \cos(A) = \frac{6\sqrt{61}}{61}, \tan(A) = \frac{5}{6}, \csc(A) = \frac{\sqrt{61}}{5}, \sec(A) = \frac{\sqrt{61}}{6}, \cot(A) = \frac{6}{5} \right], \left[\begin{array}{l} \sqrt{:(} \\ :(} \end{array} \right]$$

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

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

$$Ans5 = \left[\begin{array}{l} Ans.1 = [y = \cos(\theta), 2\pi, 1, [-1, 1]] \\ Ans.2 = [y = 3 \sin(\theta), 2\pi, 3, [-3, 3]] \\ Ans.3 = [y = \cos(5\theta), \frac{2\pi}{5}, 1, [-1, 1]] \\ Ans.4 = [y = 5 \cos(6\theta), \frac{\pi}{3}, 5, [-5, 5]] \\ Ans.5 = [y = \frac{1}{4} \cos(3\theta), \frac{2\pi}{3}, \frac{1}{4}, \left[\frac{-1}{4}, \frac{1}{4}\right]] \\ Ans.6 = [y = 5 \sin\left(\frac{\theta}{3}\right) + 2, 6\pi, 5, [-3, 7]] \\ Ans.7 = [y = -4 \sin(5\pi\theta), \frac{2}{5}, 4, [-4, 4]] \\ Ans.8 = [y = -\frac{1}{2} \sin\left(\frac{\pi\theta}{6}\right) - 5, 12, \frac{1}{2}, \left[\frac{-11}{2}, \frac{-9}{2}\right]] \end{array} \right], Ans6 = \left[\begin{array}{l} [y = 2 \cos\left(\frac{\pi x}{3}\right) - 3, blue] \\ [y = -\sin(x) - 2, red] \\ [y = \frac{5}{2} \sin\left(\frac{x}{2}\right) + 4, black] \\ [y = 2 \sin\left(\frac{x}{2}\right), cyan] \\ [y = -3 \cos\left(\frac{\pi x}{2}\right), green] \end{array} \right], \left[\begin{array}{l} :(} \\ :(} \\ :(} \\ :(} \\ :(} \\ :(} \\ :(} \\ :(} \\ :(} \\ :(} \end{array} \right]$$

:
:
:

TrigonometryExercise Answers for No.645125

$$\begin{aligned}
 Ans1 &= \left[\sin(A) = \frac{5\sqrt{34}}{34}, \cos(A) = \frac{3\sqrt{34}}{34}, \tan(A) = \frac{5}{3}, \csc(A) = \frac{\sqrt{34}}{5}, \sec(A) = \frac{\sqrt{34}}{3}, \cot(A) = \frac{3}{5}, \left[\begin{matrix} \sqrt{:} \\ :(\end{matrix} \right] \right] \\
 Ans2 &= \left[\sin(A) = \frac{2\sqrt{29}}{29}, \cos(A) = \frac{5\sqrt{29}}{29}, \tan(A) = \frac{2}{5}, \csc(A) = \frac{\sqrt{29}}{2}, \sec(A) = \frac{\sqrt{29}}{5}, \cot(A) = \frac{5}{2}, \left[\begin{matrix} \sqrt{:} \\ :(\end{matrix} \right] \right] \\
 Ans3 &= \left[\sin(A) = \frac{\sqrt{x^2-1}}{x}, \cos(A) = \frac{1}{x}, \tan(A) = \sqrt{x^2-1}, \csc(A) = \frac{x}{\sqrt{x^2-1}}, \sec(A) = x, \cot(A) = \frac{1}{\sqrt{x^2-1}} \right] \\
 Ans4 &= \left[\sin(A) = \frac{x}{7}, \cos(A) = \frac{\sqrt{49-x^2}}{7}, \tan(A) = \frac{x}{\sqrt{49-x^2}}, \csc(A) = \frac{7}{x}, \sec(A) = \frac{7}{\sqrt{49-x^2}}, \cot(A) = \frac{\sqrt{49-x^2}}{x} \right]
 \end{aligned}$$

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

:
:
:

TrigonometryExercise Answers for No.645128

$$\begin{aligned}
 \text{Ans1} &= \left[\sin(A) = \frac{2}{3}, \cos(A) = \frac{\sqrt{5}}{3}, \tan(A) = \frac{2\sqrt{5}}{5}, \csc(A) = \frac{3}{2}, \sec(A) = \frac{3\sqrt{5}}{5}, \cot(A) = \frac{\sqrt{5}}{2} \right], \left[\begin{array}{l} \sqrt{5} \\ : \\ 2 \end{array} \right] \\
 \text{Ans2} &= \left[\sin(A) = \frac{2}{7}, \cos(A) = \frac{3\sqrt{5}}{7}, \tan(A) = \frac{2\sqrt{5}}{15}, \csc(A) = \frac{7}{2}, \sec(A) = \frac{7\sqrt{5}}{15}, \cot(A) = \frac{3\sqrt{5}}{2} \right], \left[\begin{array}{l} \sqrt{5} \\ : \\ 2 \end{array} \right] \\
 \text{Ans3} &= \left[\sin(A) = \frac{\sqrt{x^2-25}}{x}, \cos(A) = \frac{5}{x}, \tan(A) = \frac{\sqrt{x^2-25}}{5}, \csc(A) = \frac{x}{\sqrt{x^2-25}}, \sec(A) = \frac{x}{5}, \cot(A) = \frac{5}{\sqrt{x^2-25}} \right] \\
 \text{Ans4} &= \left[\sin(A) = \frac{\sqrt{x^2-25}}{x}, \cos(A) = \frac{5}{x}, \tan(A) = \frac{\sqrt{x^2-25}}{5}, \csc(A) = \frac{x}{\sqrt{x^2-25}}, \sec(A) = \frac{x}{5}, \cot(A) = \frac{5}{\sqrt{x^2-25}} \right]
 \end{aligned}$$

$$\text{Ans5} = \left[\begin{array}{l} \text{Ans.1} = [y = \sin(\theta), 2\pi, 1, [-1, 1]] \\ \text{Ans.2} = [y = 3 \cos(\theta), 2\pi, 3, [-3, 3]] \\ \text{Ans.3} = \left[y = \sin(4\theta), \frac{\pi}{2}, 1, [-1, 1] \right] \\ \text{Ans.4} = \left[y = -2 \sin(6\theta), \frac{\pi}{3}, 2, [-2, 2] \right] \\ \text{Ans.5} = \left[y = 4 \cos\left(\frac{\theta}{6}\right), 12\pi, 4, [-4, 4] \right] \\ \text{Ans.6} = \left[y = \frac{1}{4} \cos(3\theta) + 5, \frac{2\pi}{3}, \frac{1}{4}, \left[\frac{19}{4}, \frac{21}{4} \right] \right] \\ \text{Ans.7} = \left[y = -3 \sin(5\pi\theta), \frac{2}{5}, 3, [-3, 3] \right] \\ \text{Ans.8} = \left[y = -\frac{1}{2} \cos\left(\frac{\pi\theta}{3}\right) - 2, 6, \frac{1}{2}, \left[\frac{-5}{2}, \frac{-3}{2} \right] \right] \end{array} \right], \text{Ans6} = \left[\begin{array}{l} \left[y = \frac{3}{2} \cos\left(\frac{\pi x}{3}\right) - 4, \text{blue} \right] \\ \left[y = -2 \sin\left(\frac{x}{3}\right) - 3, \text{black} \right] \\ [y = -\cos(x) - 1, \text{red}] \\ \left[y = -\frac{5}{2} \sin(2\pi x), \text{green} \right] \\ \left[y = 3 \cos\left(\frac{x}{2}\right), \text{cyan} \right] \end{array} \right], \left[\begin{array}{l} : \\ : \\ : \\ : \\ : \\ : \\ : \\ : \\ : \\ : \end{array} \right]$$

:
:
:

$$Ans1 = \left[\sin(A) = \frac{3}{5}, \cos(A) = \frac{4}{5}, \tan(A) = \frac{3}{4}, \csc(A) = \frac{5}{3}, \sec(A) = \frac{5}{4}, \cot(A) = \frac{4}{3} \right], \left[\begin{array}{l} \sqrt{(\cdot)} \\ :(\cdot) \end{array} \right]$$

$$Ans2 = \left[\sin(A) = \frac{2\sqrt{14}}{9}, \cos(A) = \frac{5}{9}, \tan(A) = \frac{2\sqrt{14}}{5}, \csc(A) = \frac{9\sqrt{14}}{28}, \sec(A) = \frac{9}{5}, \cot(A) = \frac{5\sqrt{14}}{28} \right], \left[\begin{array}{l} \sqrt{(\cdot)} \\ :(\cdot) \end{array} \right]$$

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

$$Ans4 = \left[\sin(A) = \frac{x}{5}, \cos(A) = \frac{\sqrt{25-x^2}}{5}, \tan(A) = \frac{x}{\sqrt{25-x^2}}, \csc(A) = \frac{5}{x}, \sec(A) = \frac{5}{\sqrt{25-x^2}}, \cot(A) = \frac{\sqrt{25-x^2}}{x} \right]$$

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

$$Ans6 = \left[\begin{array}{l} [y = \frac{1}{2} \sin(2x) + 2, blue] \\ [y = -2 \sin\left(\frac{x}{3}\right), red] \\ [y = \cos(x) - 2, black] \\ [y = \frac{5}{2} \cos\left(\frac{\pi x}{3}\right) - 4, cyan] \\ [y = -\frac{5}{2} \sin(2\pi x), green] \end{array} \right], \left[\begin{array}{l} \cdot) \\ :(\cdot) \\ \cdot) \\ :(\cdot) \\ \cdot) \\ :(\cdot) \\ \cdot) \\ :(\cdot) \\ \cdot) \\ :(\cdot) \\ \cdot) \\ :(\cdot) \end{array} \right]$$

