

Evaluate the Remaining Trig Functions Given the Value of One and the Quadrant Practice Problems

For the given function value, find the remaining 5 trig functions. Be sure to take note of the constraints.

1. $\sin \theta = \frac{3}{5}$ Quadrant II

2. $\cos \theta = -\frac{4}{5}$ Quadrant III

3. $\tan \theta = -\frac{5}{12}$ Quadrant II

4. $\csc \theta = 4$ $\cot \theta < 0$

5. $\tan \theta = -\frac{15}{8}$ $\sin \theta < 0$

6. $\cot \theta = -3$ $\cos \theta > 0$

7. $\tan \theta = \frac{4}{3}$ Quadrant III

8. $\sin \theta = 0$ $\sec \theta = -1$

Evaluate the Remaining Trig Functions Given the Value of One and the Quadrant Practice Problems Answers

1. $\cos \theta = -\frac{4}{5}$ $\tan \theta = -\frac{3}{4}$ $\csc \theta = \frac{5}{3}$ $\sec \theta = -\frac{5}{4}$ $\cot \theta = -\frac{4}{3}$
2. $\sin \theta = -\frac{3}{5}$ $\tan \theta = \frac{3}{4}$ $\csc \theta = -\frac{5}{3}$ $\sec \theta = -\frac{5}{4}$ $\cot \theta = \frac{4}{3}$
3. $\sin \theta = \frac{5}{13}$ $\cos \theta = -\frac{2}{13}$ $\csc \theta = \frac{13}{5}$ $\sec \theta = \frac{13}{-12}$ $\cot \theta = -\frac{12}{5}$
4. $\sin \theta = \frac{1}{4}$ $\cos \theta = \frac{-\sqrt{15}}{4}$ $\tan \theta = \frac{-\sqrt{15}}{15}$ $\sec \theta = \frac{-4\sqrt{15}}{15}$ $\cot \theta = -\sqrt{15}$
5. $\sin \theta = -\frac{15}{17}$ $\cos \theta = \frac{8}{17}$ $\csc \theta = -\frac{17}{15}$ $\sec \theta = \frac{17}{8}$ $\cot \theta = -\frac{8}{15}$
6. $\sin \theta = \frac{-\sqrt{10}}{10}$ $\cos \theta = \frac{3\sqrt{10}}{10}$ $\tan \theta = -\frac{1}{3}$ $\csc \theta = -\sqrt{10}$ $\sec \theta = \frac{\sqrt{10}}{3}$
7. $\sin \theta = -\frac{4}{5}$ $\cos \theta = -\frac{3}{5}$ $\csc \theta = \frac{5}{-4}$ $\sec \theta = \frac{5}{-3}$ $\cot \theta = \frac{3}{4}$
8. $\cos \theta = -1$ $\tan \theta = 0$ $\csc \theta = \text{UND}$ $\sec \theta = -1$ $\cot \theta = \text{UND}$