

Name: _____

Using Fundamental Identities

Exercise 1: Find the values of cos, tan, cot, csc and sec.

1) $\sin \theta = \frac{1}{2}$

2) $\sin \theta = \frac{1}{\sqrt{2}}$

3) $\sin \theta = \frac{5}{13}$

Exercise 2: Use the given to evaluate (if possible) all the six trigonometric functions

1) $\sin \theta = \frac{\sqrt{3}}{2}$, $\cos \theta = -\frac{1}{2}$

2) $\tan \theta = \frac{\sqrt{3}}{3}$, $\cos \theta = -\frac{\sqrt{3}}{2}$

3) $\sec \theta = \sqrt{2}$, $\sin \theta = -\frac{\sqrt{2}}{2}$

4) $\tan \theta = \frac{5}{12}$, $\sec \theta = -\frac{13}{12}$

5) $\cos\left(\frac{\pi}{2} - \theta\right) = \frac{3}{5}$, $\cos \theta = \frac{4}{5}$

6) $\sin(-\theta) = -\frac{1}{3}$, $\tan \theta = -\frac{\sqrt{2}}{4}$

7) $\sec \theta = 4$, $\sin \theta > 0$

8) $\sin \theta = -1$, $\cot \theta = 0$

9) $\tan \theta$ is undefined, $\sin \theta > 0$