

Name: _____

Using Fundamental Identities

1) Find sines

1) $\cos s = \frac{3}{4}$, s in quadrant I

2) $\cot s = -\frac{1}{3}$, s in quadrant IV

3) $\cos(-s) = \frac{\sqrt{5}}{5}$, $\tan s < 0$

4) $\tan s = -\frac{\sqrt{7}}{2}$, $\sec s > 0$

5) $\sec s = \frac{11}{4}$, $\tan s < 0$

2) Find the remaining five trigonometric functions of θ

1) $\sin \theta = \frac{2}{3}$, θ in quadrant II

2) $\cos \theta = \frac{1}{5}$, θ in quadrant I

3) $\tan \theta = -\frac{1}{4}$, θ in quadrant IV

4) $\csc \theta = -\frac{5}{2}$, θ in quadrant III

5) $\cot \theta = \frac{4}{3}$, $\sin \theta > 0$

6) $\sin \theta = -\frac{4}{5}$, $\cos \theta < 0$

7) $\sec \theta = \frac{4}{3}$, $\sin \theta < 0$

8) $\cos \theta = -\frac{1}{4}$, $\sin \theta > 0$

3) If $\tan \theta = -\frac{5}{3}$ and θ is in quadrant II, find each function value

1) $\sec \theta$

2) $\sin \theta$

3) $\cot(-\theta)$

4) Express $\cos x$ in terms of $\tan x$ 5) Write $\tan \theta + \cot \theta$ in terms of $\sin \theta$ and $\cos \theta$, and then simplify the expression