

Name: _____

5.1 Trig Identities Practice

For 1-6, simplify.

1) $\cos^3 x + \cos x + \cos x \sin^2 x$

2) $\sec x \cos x$

3) $\sec x \cot x$

4) $\csc \theta \cot^2 \theta + \frac{1}{\sin \theta}$

5) $\sin x + \cos x \cot x$

6) $\frac{\tan \theta \csc \theta}{\sec \theta}$

Review!

7) Given that $\tan \theta = \frac{5}{12}$ and $180^\circ < \theta < 270^\circ$, find the values of the other five trigonometric function of θ .

8) Given that $\sin \theta = \frac{4}{5}$ and $\frac{\pi}{2} < \theta < \pi$, find the values of the other five trigonometric function of θ .

9) Given that $\csc \theta = -\frac{3}{2}$ and $\frac{3\pi}{2} < \theta < 2\pi$, find the values of the other five trigonometric function of θ .