

MATH 1080 TRIGONOMETRY

7.4 Worksheet

Name _____

Date _____

1. If $\sec t = 2$, determine the value of $\sec(-t)$.
2. If $\sin t = -\frac{\sqrt{3}}{2}$, determine the value of $\sin(-t)$.
3. If $\tan t = -0.72$, determine the value of $\tan(-t)$.

Using a unit circle, determine the exact value of each.

4. $\sin \frac{21\pi}{4}$

5. $\cos\left(-\frac{25\pi}{3}\right)$

6. Using trig identities, determine the value of $\tan\left(\frac{19\pi}{6}\right)$ given that $\cos\left(\frac{19\pi}{6}\right) = -\frac{\sqrt{3}}{2}$ and $\sin\left(\frac{19\pi}{6}\right) = -\frac{1}{2}$.

Use trig identities to simplify each expression.

7. $\csc x \tan x$

8. $\cot^2 x \sec^2 x$