

Name: _____

Trigonometry 3.1 – 3.2

1. Find the exact value for each of the following:

a) $\sin 240^\circ =$ _____

b) $\tan 675^\circ =$ _____

c) $\cos \frac{5\pi}{4} =$ _____

d) $\csc \frac{2\pi}{3} =$ _____

e) $\cos 270^\circ =$ _____

f) $\cot \frac{\pi}{4} =$ _____

g) $\sin \frac{13\pi}{3} =$ _____

h) $\cot \frac{-11\pi}{4} =$ _____

i) $\sec \frac{5\pi}{-4} =$ _____

j) $\cot \frac{13\pi}{6} =$ _____

2. Convert to degrees.

a) $\frac{9\pi}{2} =$ _____

b) $\frac{7\pi}{9} =$ _____

c) $\frac{8\pi}{3} =$ _____

d) 1 rad = _____

e) $\frac{\pi}{15} =$ _____

f) 2 rad = _____

3. *Convert to radians.*

a) $50^\circ =$ _____

b) $240^\circ =$ _____

c) $600^\circ =$ _____

Find θ (in radians), if $0 \leq \theta \leq 2\pi$.

a) $\sin \theta = \frac{-1}{2}$ _____

b) $\tan \theta = 0$

c) $\sec \theta = -2$ _____

d) $\cos \theta = \frac{-\sqrt{3}}{2}$ _____

e) $\cot \theta = -1$ _____