

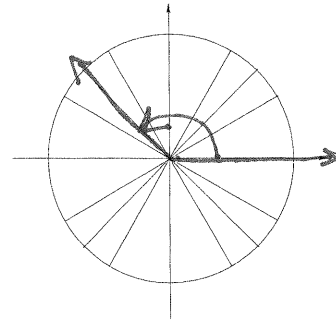
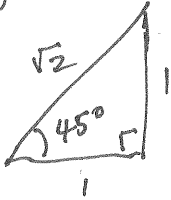
Name: KEY Quiz Score: \_\_\_\_\_ /20

**Quiz 2: Version A**

NO CALCULATORS. Show your reasoning. Simplify your answers. Use standard mathematical notation correctly.

1. Sketch  $\theta = 135^\circ$  in standard position.

ref angle is  $45^\circ$

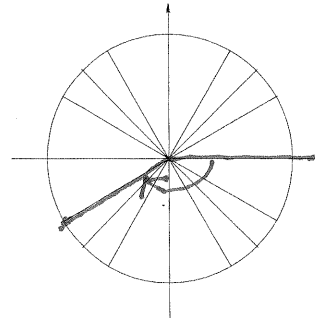
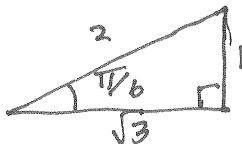


Evaluate each of the following. Give exact values, simplified. You need not rationalize denominators.

- (a)  $\sin 135^\circ = + \frac{1}{\sqrt{2}}$
- (b)  $\cos 135^\circ = - \frac{1}{\sqrt{2}}$
- (c)  $\tan 135^\circ = -1$
- (d)  $\cot 135^\circ = -1$
- (e)  $\sec 135^\circ = -\sqrt{2}$
- (f)  $\csc 135^\circ = +\sqrt{2}$

2. Sketch  $\theta = -\frac{5\pi}{6}$  in standard position.

ref angle is  $\frac{\pi}{6}$



Evaluate each of the following. Give exact values, simplified. You need not rationalize denominators.

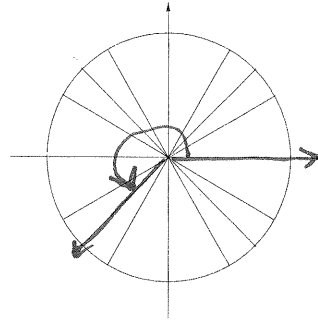
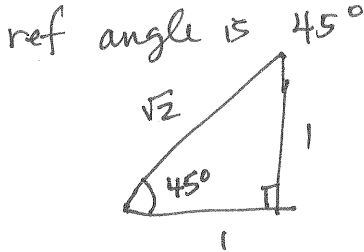
- (a)  $\sin\left(-\frac{5\pi}{6}\right) = -\frac{1}{2}$
- (b)  $\cos\left(-\frac{5\pi}{6}\right) = -\frac{\sqrt{3}}{2}$
- (c)  $\tan\left(-\frac{5\pi}{6}\right) = +\frac{1}{\sqrt{3}}$
- (d)  $\cot\left(-\frac{5\pi}{6}\right) = +\sqrt{3}$
- (e)  $\sec\left(-\frac{5\pi}{6}\right) = -\frac{2}{\sqrt{3}}$
- (f)  $\csc\left(-\frac{5\pi}{6}\right) = -2$

Name: KEY Quiz Score: \_\_\_\_\_ /20

**Quiz 2: Version B**

NO CALCULATORS. Show your reasoning. Simplify your answers. Use standard mathematical notation correctly.

1. Sketch  $\theta = 225^\circ$  in standard position.



Evaluate each of the following. Give exact values, simplified. You need not rationalize denominators.

(a)  $\sin 225^\circ = -\frac{1}{\sqrt{2}}$

(c)  $\tan 225^\circ = +1$

(e)  $\sec 225^\circ = -\sqrt{2}$

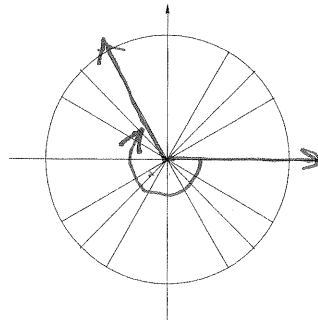
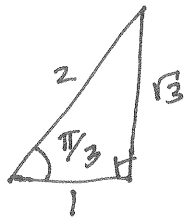
(b)  $\cos 225^\circ = -\frac{1}{\sqrt{2}}$

(d)  $\cot 225^\circ = +1$

(f)  $\csc 225^\circ = -\sqrt{2}$

2. Sketch  $\theta = -\frac{4\pi}{3}$  in standard position.

ref angle is  $\frac{\pi}{3}$



Evaluate each of the following. Give exact values, simplified. You need not rationalize denominators.

(a)  $\sin\left(-\frac{4\pi}{3}\right) = +\frac{\sqrt{3}}{2}$

(c)  $\tan\left(-\frac{4\pi}{3}\right) = -\sqrt{3}$

(e)  $\sec\left(-\frac{4\pi}{3}\right) = -2$

(b)  $\cos\left(-\frac{4\pi}{3}\right) = -\frac{1}{2}$

(d)  $\cot\left(-\frac{4\pi}{3}\right) = -\frac{1}{\sqrt{3}}$

(f)  $\csc\left(-\frac{4\pi}{3}\right) = +\frac{2}{\sqrt{3}}$