

Recap: Convert the following angles in radian measure to degree measure.

$$\pi = 180^\circ$$

$$\frac{\pi}{2} = 90^\circ$$

$$\frac{\pi}{3} = 60^\circ$$

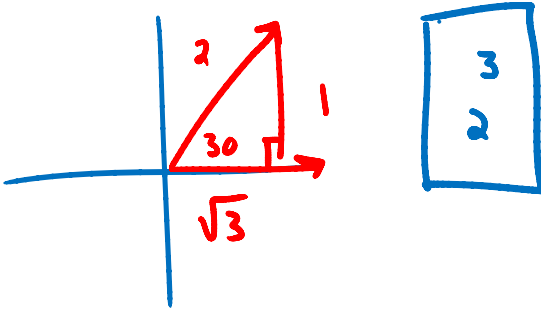
$$\frac{\pi}{4} = 45^\circ$$

$$\frac{\pi}{6} = 30^\circ$$

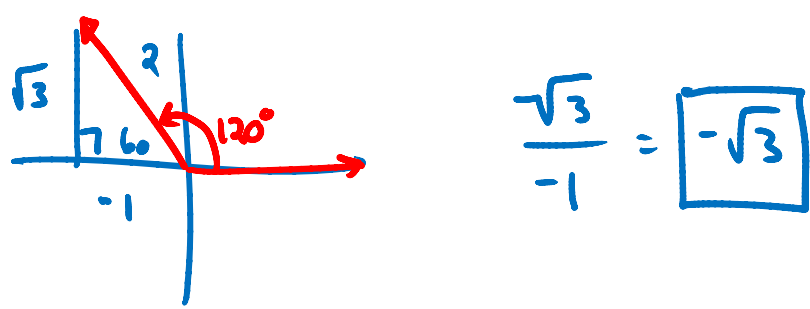
Without a calculator, find the *exact value* of the trigonometric function.

SOH  
 CAH  
 TOA  
 sec

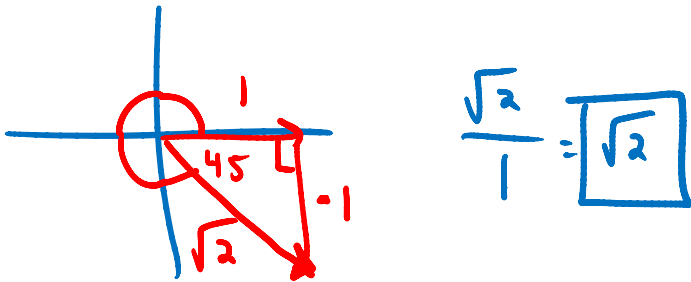
1.)  $\cos \frac{\pi}{6}$      $\cos 30^\circ$



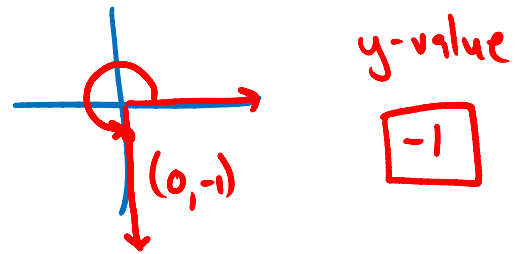
2.)  $\tan \frac{2\pi}{3}$      $\tan 2(60^\circ)$      $\tan 120^\circ$



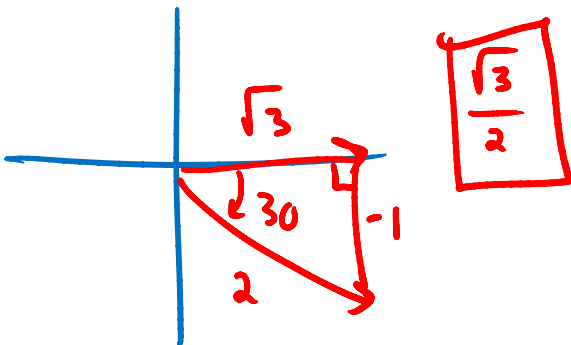
3.)  $\sec \frac{7\pi}{4}$      $\sec 7(45^\circ)$   
 $\sec 315^\circ$



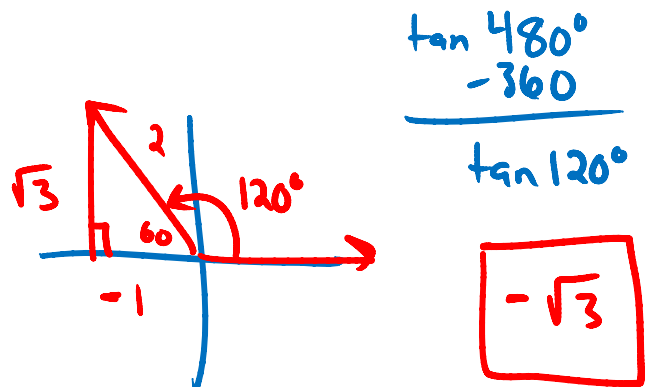
4.)  $\sin \frac{3\pi}{2}$      $\sin 3(90^\circ)$   
 $\sin 270^\circ$



5.)  $\cos\left(-\frac{\pi}{6}\right)$      $\cos(-30^\circ)$



6.)  $\tan \frac{8\pi}{3}$      $\tan 8(60^\circ)$



$$\frac{\tan 480^\circ - 360^\circ}{\tan 120^\circ}$$

$$-\sqrt{3}$$

Functions & Trig  
Trig and Radians HW

Name \_\_\_\_\_

Without a calculator, find the *exact value* of the trigonometric function.

1.)  $\sin \frac{7\pi}{6}$

2.)  $\sec \left( -\frac{5\pi}{3} \right)$

3.)  $\csc \frac{3\pi}{4}$

4.)  $\tan \frac{\pi}{2}$

5.)  $\cos \frac{13\pi}{6}$

6.)  $\cot \frac{4\pi}{3}$

7.)  $\sin \frac{5\pi}{4}$

8.)  $\cos \pi$