

30°	45°	60°	90°
120°	135°	150°	180°
210°	225°	240°	270°
300°	315°	330°	360°

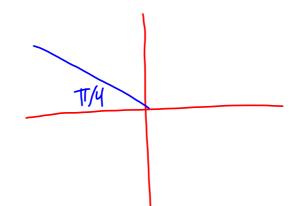
Know Your Radians!

The keys to remember radians are remembering:

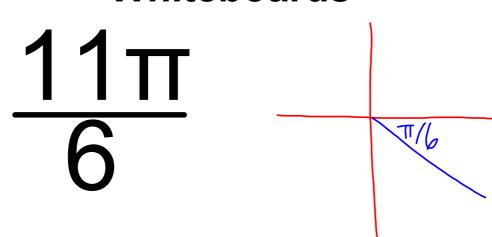
$$\frac{\pi}{6}$$
 $\frac{\pi}{4}$
 $\frac{\pi}{3}$
 $\frac{\pi}{2}$
 $\frac{\pi}{5}$
 $\frac{\pi}{60}$

Know Your Radians!





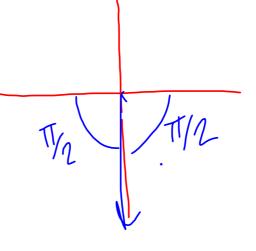
Know Your Radians!



Know Your Radians!

Whiteboards

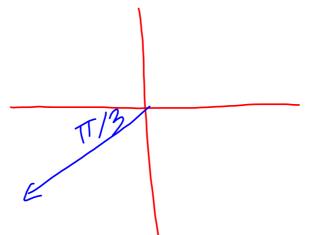
<u>3π</u>

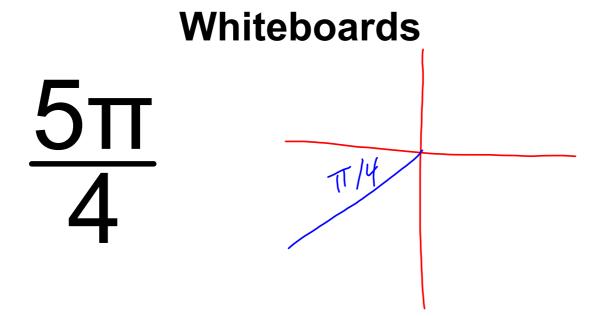


Know Your Radians!

Whiteboards

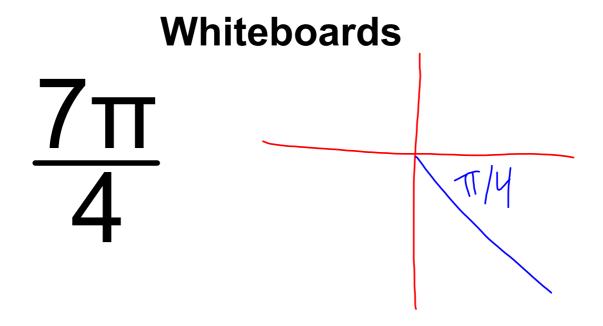
<u>4π</u>

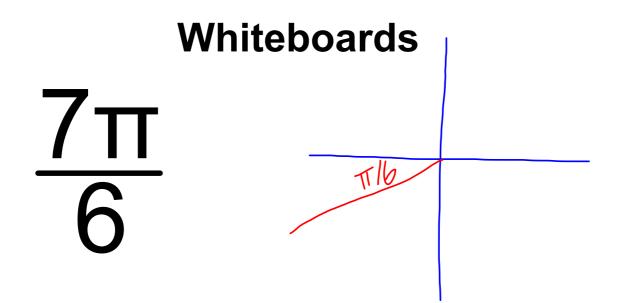




Know Your Radians!

Know Your Radians!

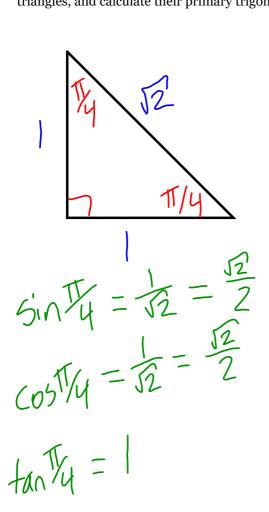


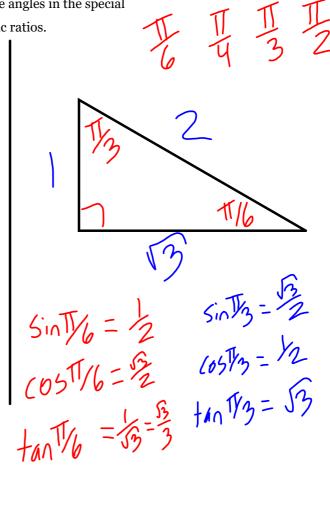


Action

6.2 Radian Measure and Angles on the Cartesian Plane

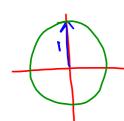
Example 1: Determine the radian measures of the angles in the special triangles, and calculate their primary trigonometric ratios.





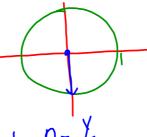
Example 2: Determine the exact value of each trigonometric ratio.

a)
$$\sin(\frac{\pi}{2})$$



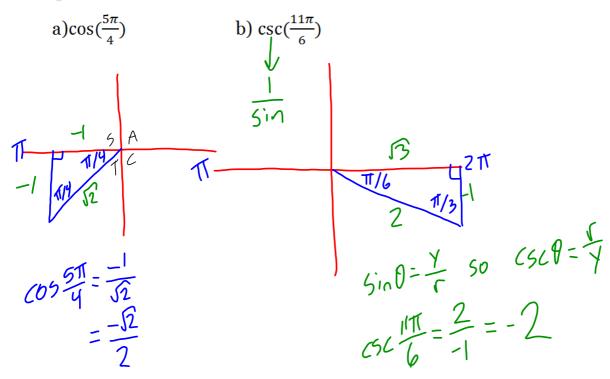
$$Sin \theta = \frac{1}{C}$$

b)
$$\cot(\frac{3\pi}{2})$$



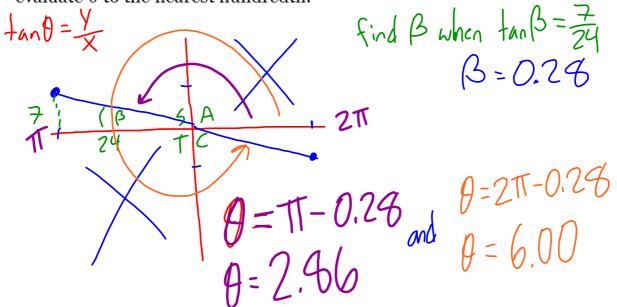
$$\cot \frac{3\pi}{2} = \frac{0}{-1}$$

1 +an 2 **Example 3:** Determine the exact value of each trigonometric ratio.



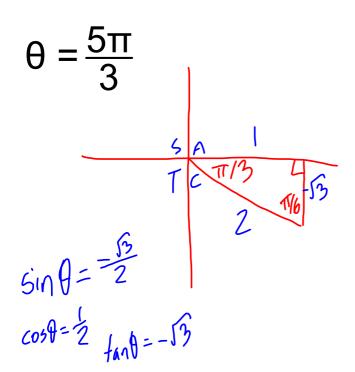
Example 4: If $tan\theta = (-\frac{7}{24})$, where $0 \le \theta \le 2\pi$,

evaluate θ to the nearest hundredth.



Consolidation

Determine the exact values of the primary trig ratios when



*Switch your calculator to radians!

Pg. 330 2, 5, 7, 8, 9, 11

*Switch your calculator to radians!