

# C\_07 Key and Unit Circle

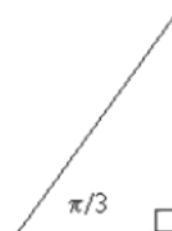
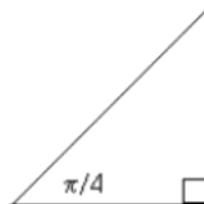
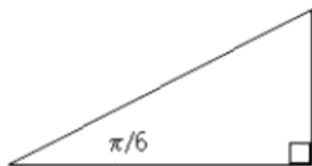
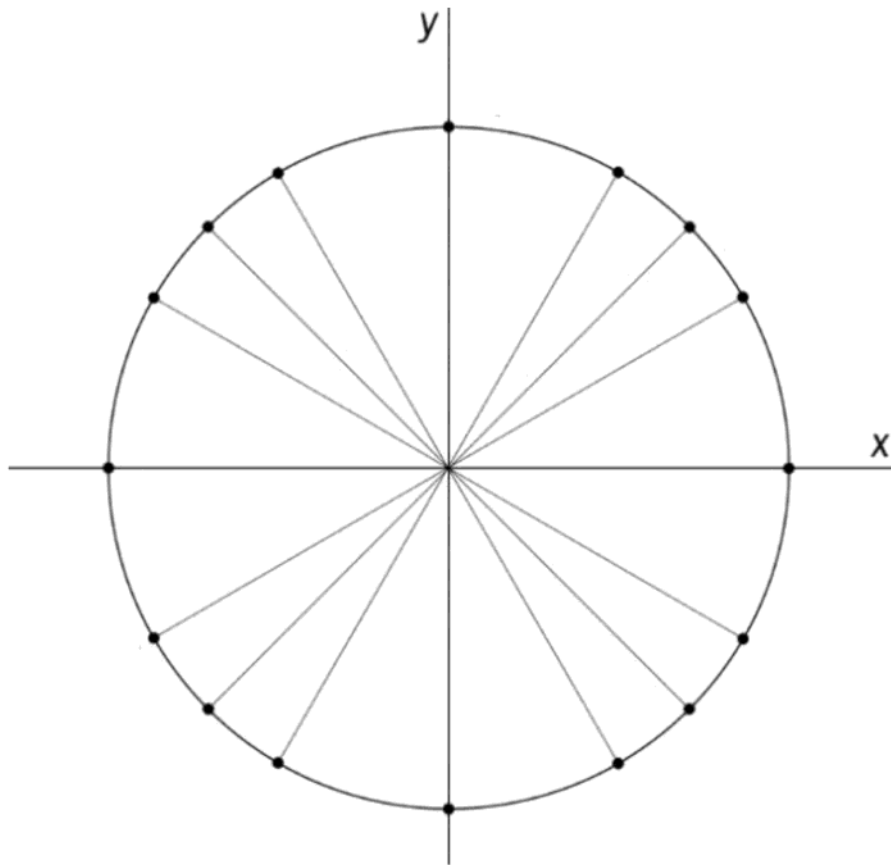
Wednesday, October 3, 2018 4:34 PM

## The Unit Circle

Label each side length on the special triangles below.

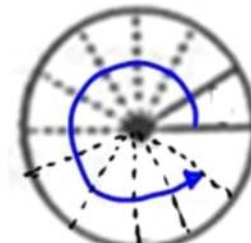
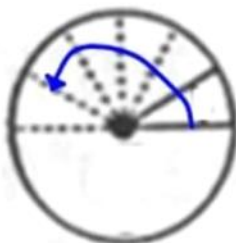
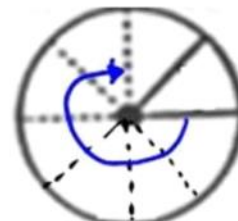
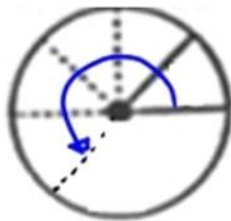
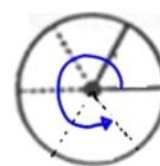
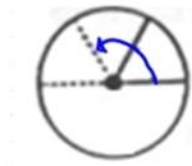
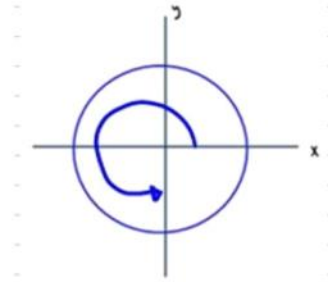
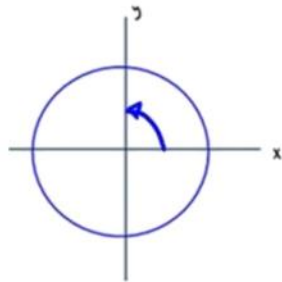
Label each point on the unit circle with:

- the ANGLE (in radians) associated with that point
- the point's exact  $(x, y)$  coordinates



For each angle  $\theta$  below

- label it with its measurement in degrees **and** in radians
- give the coordinates of  $P(\theta)$

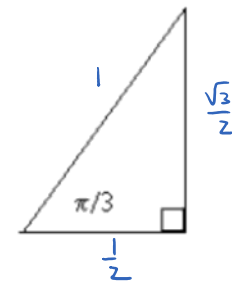
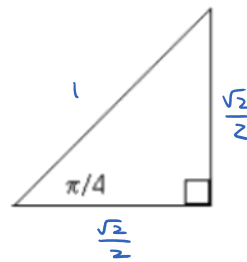
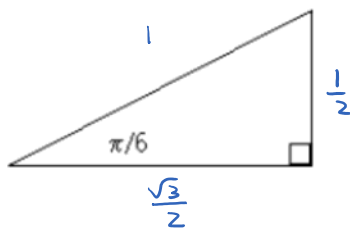
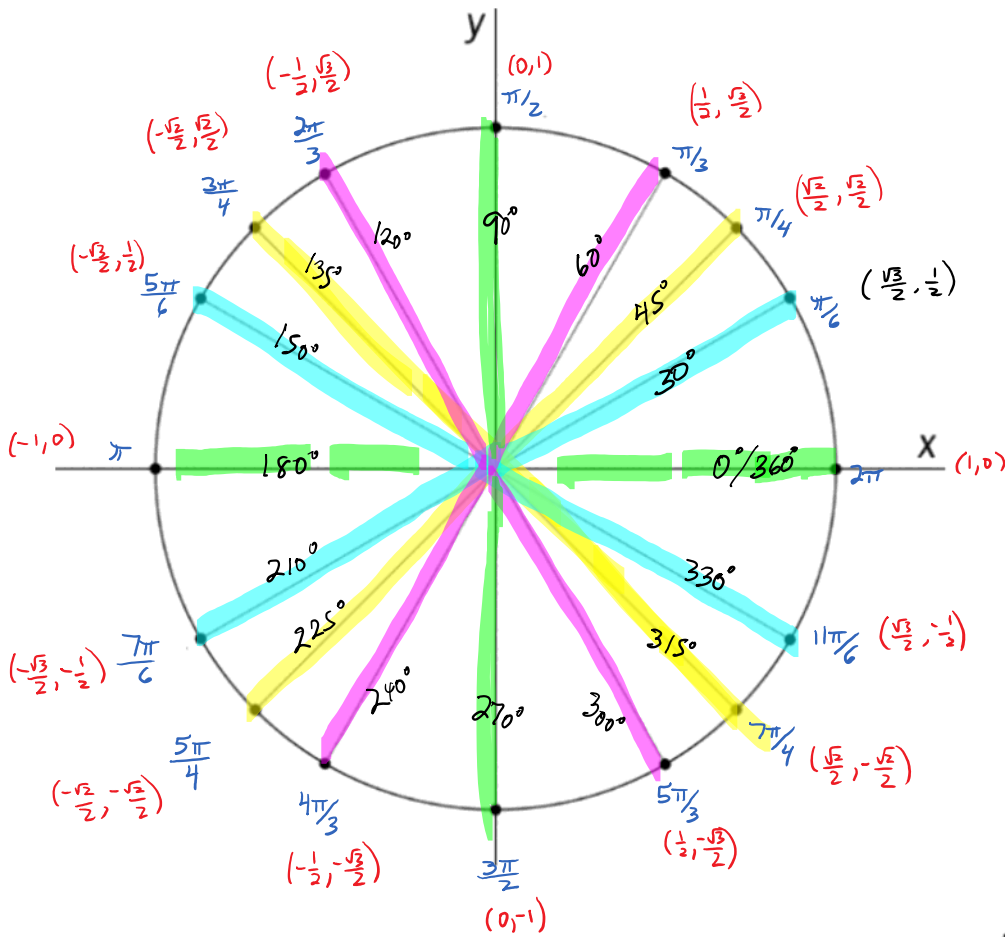


# The Unit Circle

Label each side length on the special triangles below.

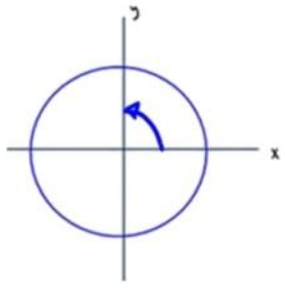
Label each point on the unit circle with:

- the ANGLE (in radians) associated with that point
- the point's exact (x, y) coordinates



For each angle  $\theta$  below

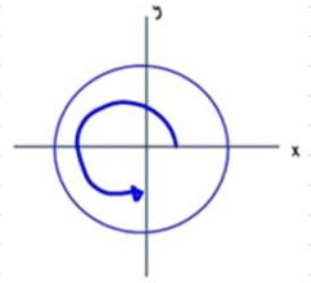
- label it with its measurement in degrees *and* in radians
- give the coordinates of  $P(\theta)$



$$90^\circ$$

$$\frac{\pi}{2}$$

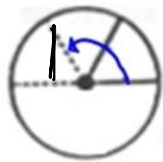
$$(0, 1)$$



$$270^\circ$$

$$\frac{3\pi}{2}$$

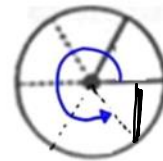
$$(0, -1)$$



$$120^\circ$$

$$\frac{2\pi}{3}$$

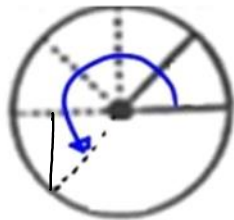
$$\left(-\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$$



$$300^\circ$$

$$\frac{5\pi}{3}$$

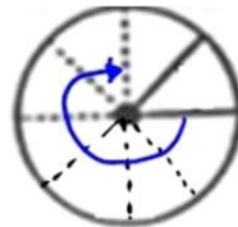
$$\left(\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$$



$$225^\circ$$

$$\frac{5\pi}{4}$$

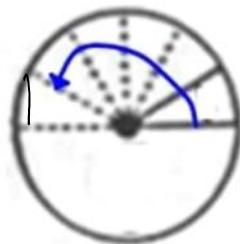
$$\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$$



$$-270^\circ$$

$$-\frac{3\pi}{2}$$

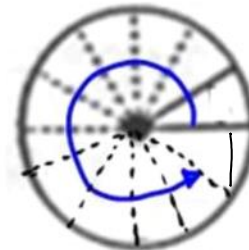
$$(0, 1)$$



$$150^\circ$$

$$\frac{5\pi}{6}$$

$$\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$$



$$330^\circ$$

$$\frac{11\pi}{6}$$

$$\left(\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$$