

$$\text{Radian} = \frac{\text{Degree} \times \pi}{180}$$

Assignment: Angle unit conversion

Convert each degree measure into radians and each radian measure into degrees.

1) $\frac{\pi}{6}$

2) 450°

3) -420°

4) $-\frac{7\pi}{12}$

Convert each radian measure into degrees.

5) $-\frac{35\pi}{6}$

6) $\frac{7\pi}{6}$

7) $-\frac{10\pi}{3}$

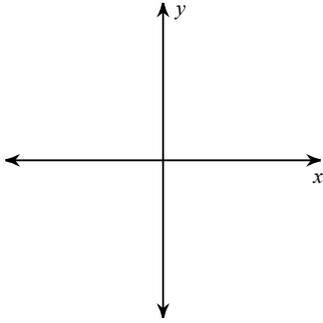
8) $\frac{13\pi}{6}$

9) $\frac{3\pi}{4}$

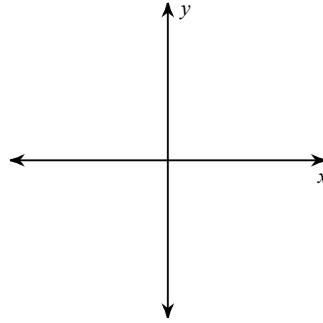
10) $-\frac{4\pi}{9}$

Draw an angle with the given measure in standard position.

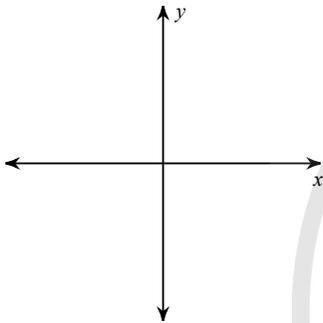
11) -615°



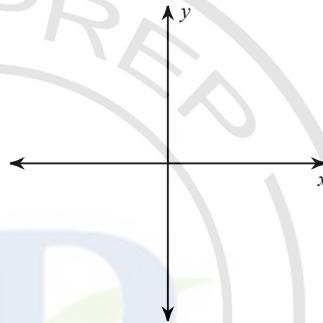
12) -490°



13) 535°



14) -350°



Find the reference angle.

15) $\frac{17\pi}{18}$

16) $-\frac{20\pi}{9}$

17) $-\frac{23\pi}{6}$

18) $-\frac{49\pi}{18}$

19) $-\frac{28\pi}{9}$

20) $-\frac{15\pi}{4}$

Answers to Assignment: Angle unit conversion

1) 30°

2) $\frac{5\pi}{2}$

3) $-\frac{7\pi}{3}$

4) -105°

5) -1050°

6) 210°

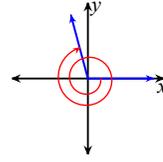
7) -600°

8) 390°

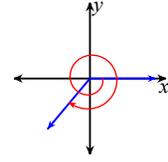
9) 135°

10) -80°

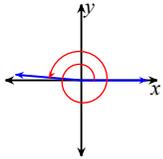
11)



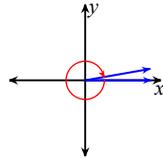
12)



13)



14)



15) $\frac{\pi}{18}$

16) $\frac{2\pi}{9}$

17) $\frac{\pi}{6}$

18) $\frac{5\pi}{18}$

19) $\frac{\pi}{9}$

20) $\frac{\pi}{4}$

