

## Angles and Angle Measure

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

1)  $325^\circ$

2)  $60^\circ$

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

4)  $\frac{23\pi}{12}$

5)  $570^\circ$

6)  $-315^\circ$

Convert each decimal degree measure into degrees-minutes-seconds and each degrees-minutes-seconds into decimal degrees.

7)  $128.77^\circ$

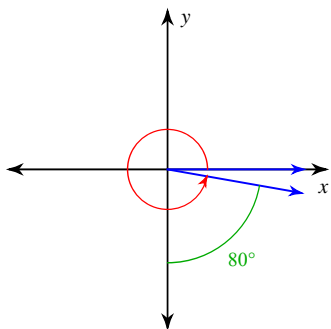
8)  $232^\circ 7' 57''$

9)  $-154^\circ 47' 42''$

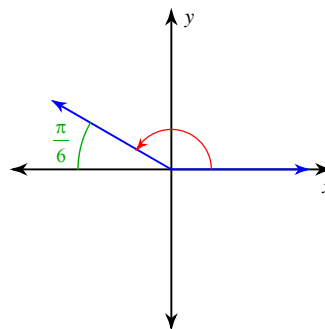
10)  $-0.9225^\circ$

Find the measure of each angle.

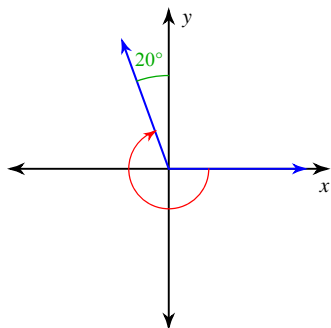
11)



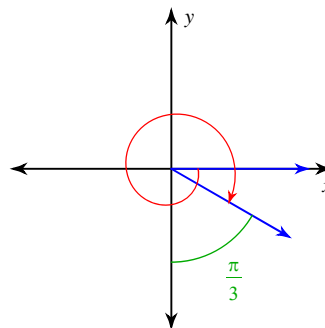
12)



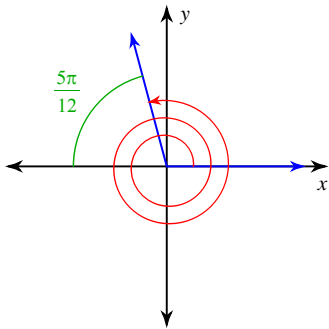
13)



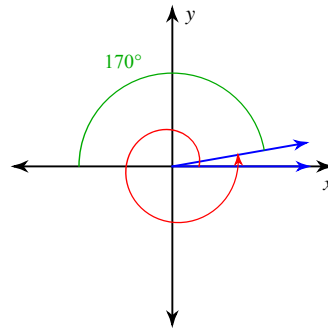
14)



15)

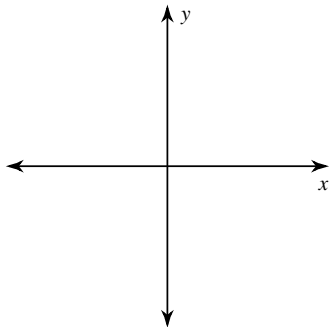


16)

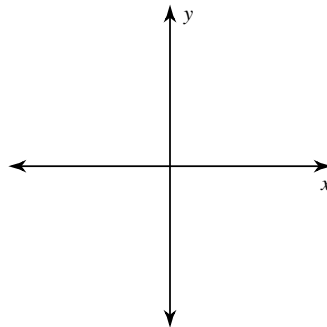


**Draw an angle with the given measure in standard position.**

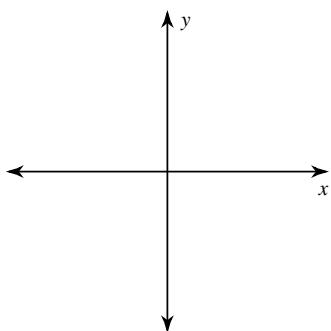
17)  $280^\circ$



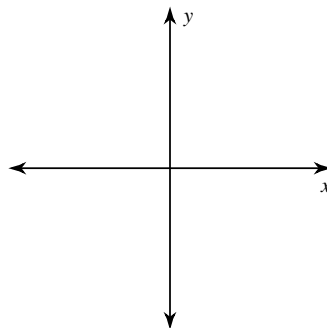
18)  $710^\circ$



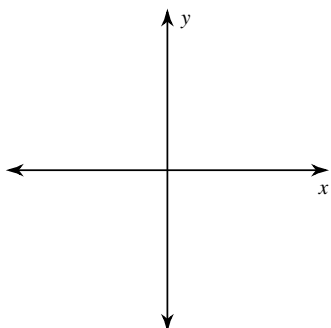
19)  $-120^\circ$



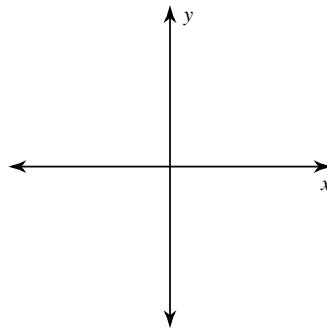
20)  $\frac{11\pi}{6}$



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



22)  $440^\circ$



**State the quadrant in which the terminal side of each angle lies.**

23)  $-509^\circ$

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

## Angles and Angle Measure

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

1)  $325^\circ$   $\frac{65\pi}{36}$

2)  $60^\circ$   $\frac{\pi}{3}$

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

$-240^\circ$

4)  $\frac{23\pi}{12}$

$345^\circ$

5)  $570^\circ$   $\frac{19\pi}{6}$

6)  $-315^\circ$   $-\frac{7\pi}{4}$

Convert each decimal degree measure into degrees-minutes-seconds and each degrees-minutes-seconds into decimal degrees.

7)  $128.77^\circ$

$128^\circ 46' 12''$

8)  $232^\circ 7' 57''$

$232.1325^\circ$

9)  $-154^\circ 47' 42''$

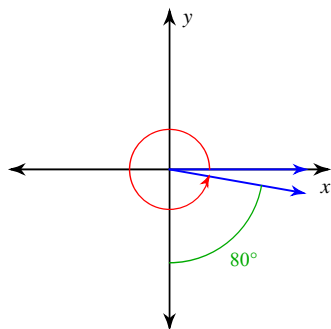
$-154.795^\circ$

10)  $-0.9225^\circ$

$-0^\circ 55' 21''$

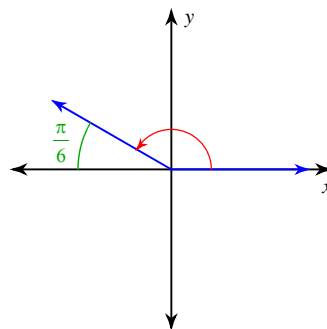
Find the measure of each angle.

11)



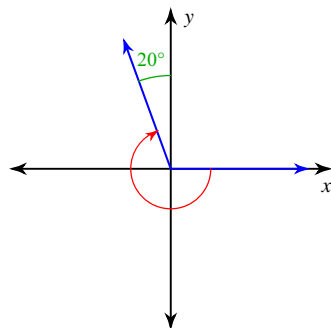
$350^\circ$

12)



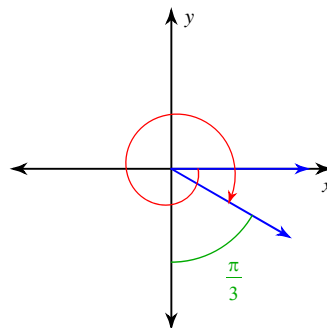
$\frac{5\pi}{6}$

13)



$-250^\circ$

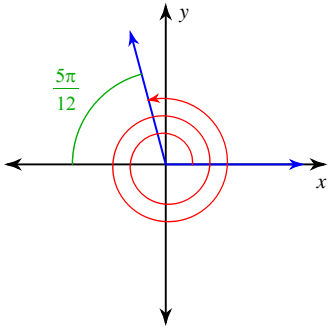
14)



$-\frac{13\pi}{6}$

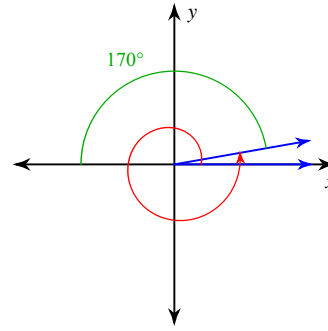
15)

$$\frac{55\pi}{12}$$

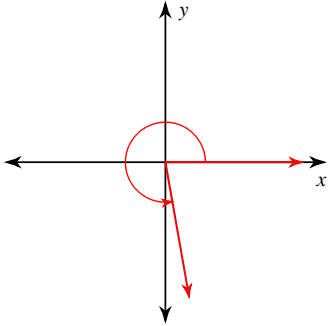
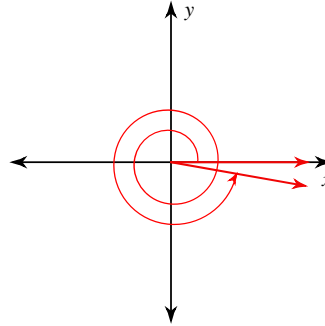
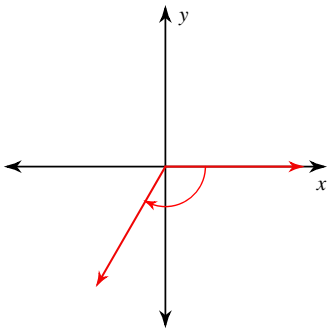
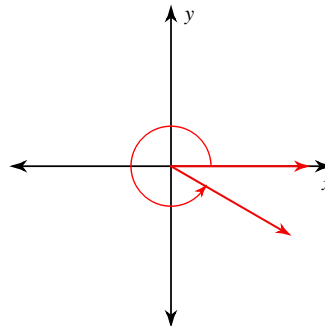
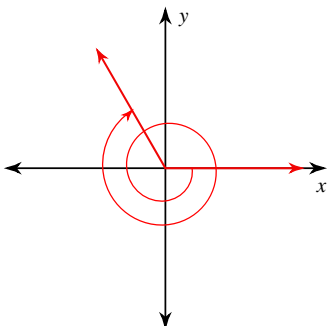
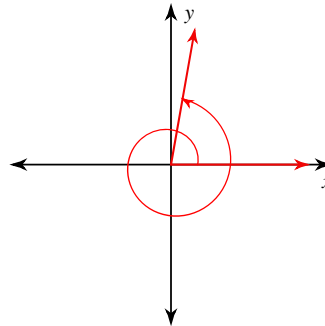


16)

$$370^\circ$$



Draw an angle with the given measure in standard position.

17)  $280^\circ$ 18)  $710^\circ$ 19)  $-120^\circ$ 20)  $\frac{11\pi}{6}$ 21)  $-\frac{10\pi}{3}$ 22)  $440^\circ$ 

State the quadrant in which the terminal side of each angle lies.

23)  $-509^\circ$  III24)  $-\frac{5\pi}{6}$  III