Name_____

Angles and Angle Measure

Date_____ Period____

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

1) $325°$

2) $340°$

3) $60°$

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

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

6) $\frac{10\pi}{3}$

7) $570°$

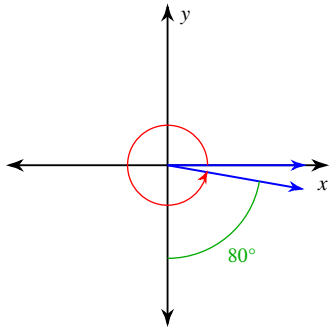
8) $-315°$

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

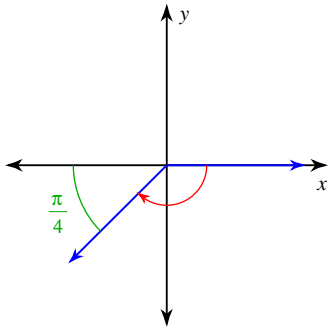
10) $-180°$

Find the measure of each angle.

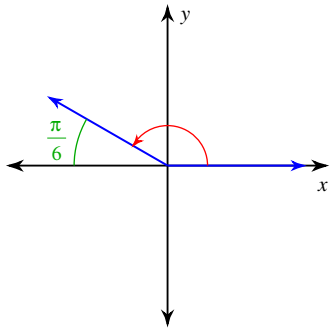
11)



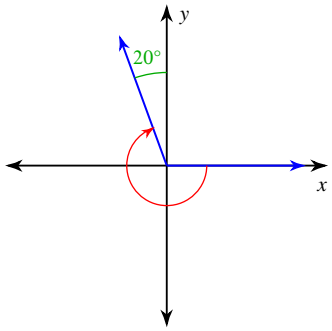
12)



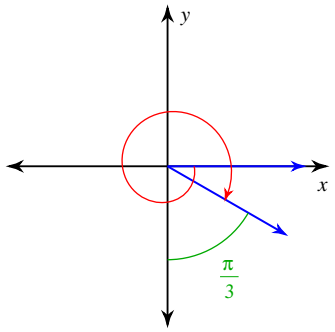
13)



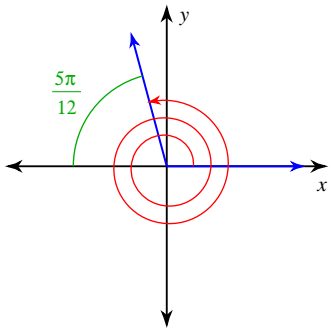
14)



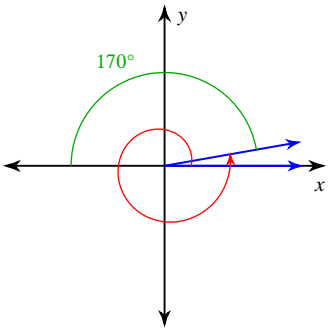
15)



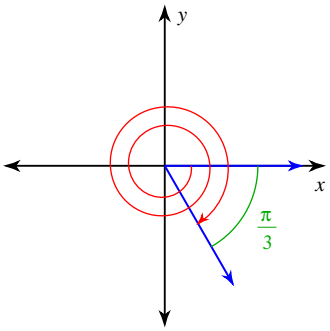
16)



17)

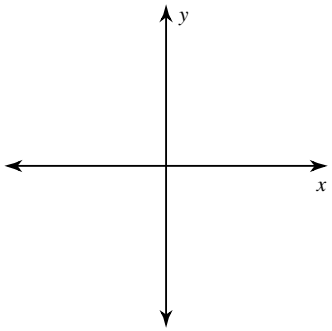


18)

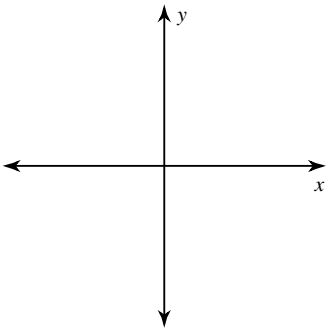


Draw an angle with the given measure in standard position.

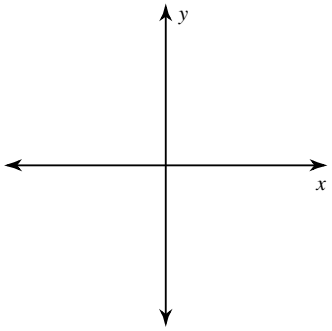
19) 280°



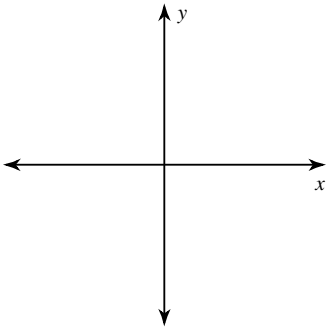
20) 710°



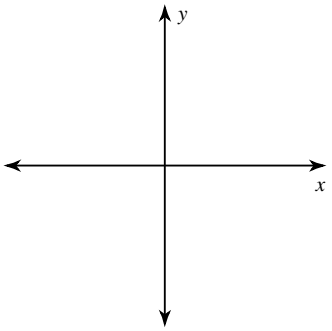
21) −120°



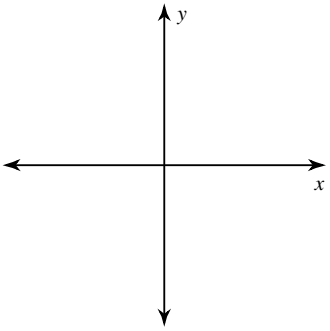
22) $\frac{11\pi}{6}$



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



24) 440°



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

25) −509°

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

Name_____

Angles and Angle Measure

Date_____ Period____

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

1) $325°$ $\frac{65\pi}{36}$

2) $340°$ $\frac{17\pi}{9}$

3) $60°$ $\frac{\pi}{3}$

4) $-\frac{4\pi}{3}$ $-240°$

5) $\frac{23\pi}{12}$ $345°$

6) $\frac{10\pi}{3}$ $600°$

7) $570°$ $\frac{19\pi}{6}$

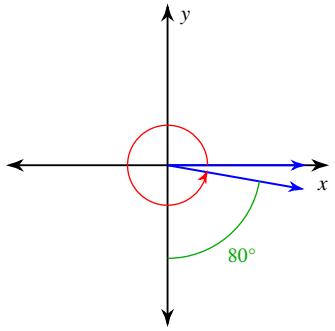
8) $-315°$ $-\frac{7\pi}{4}$

9) $\frac{\pi}{2}$ $90°$

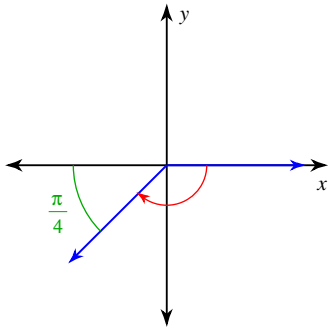
10) $-180°$ $-\pi$

Find the measure of each angle.

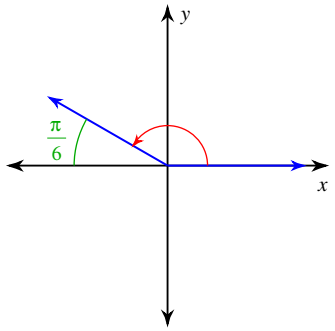
11) $350°$



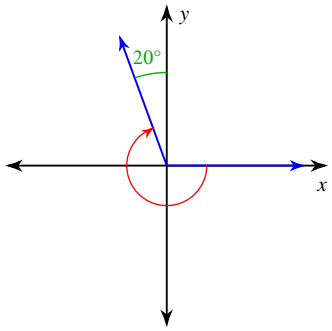
12) $-\frac{3\pi}{4}$



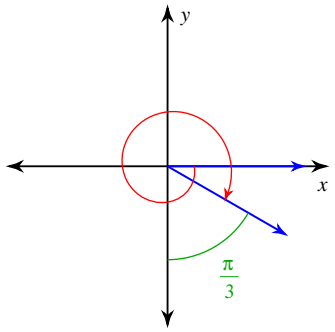
13) $\frac{5\pi}{6}$



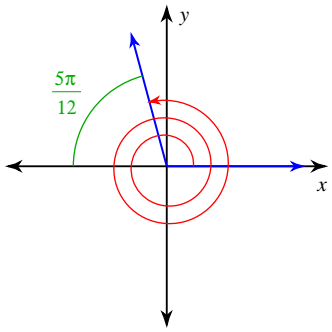
14) $-250°$



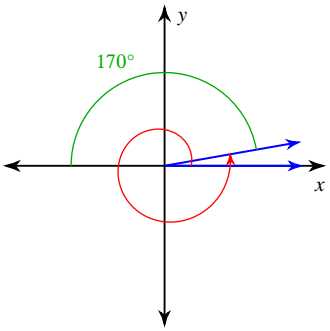
15) $-\frac{13\pi}{6}$



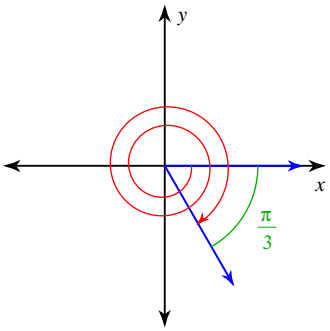
16) $\frac{55\pi}{12}$



17) 370°

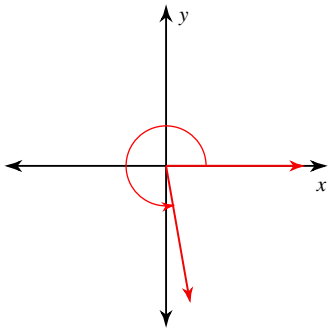


18) $-\frac{13\pi}{3}$

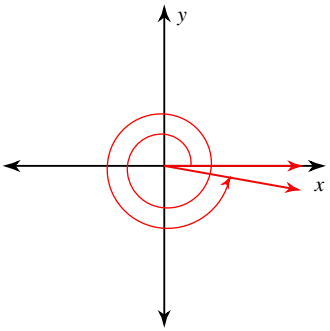


Draw an angle with the given measure in standard position.

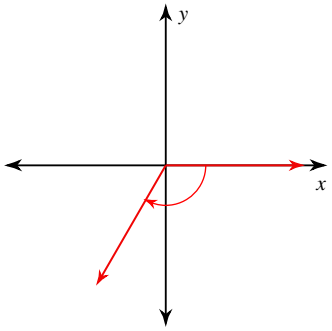
19) 280°



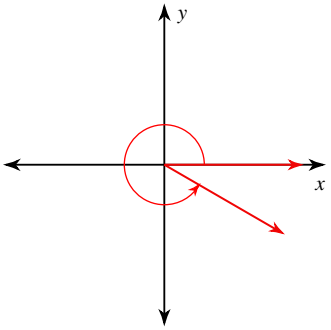
20) 710°



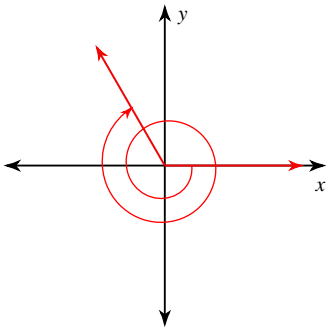
21) −120°



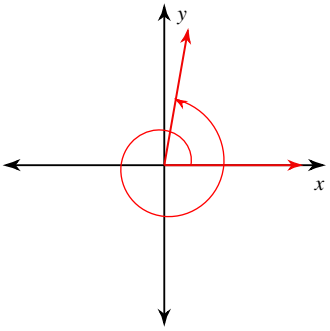
22) $\frac{11\pi}{6}$



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



24) 440°



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

25) −509° III

26) $-\frac{5\pi}{6}$ III