 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°

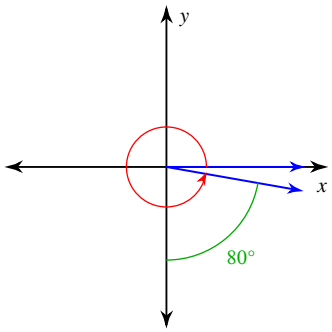
8) −315°

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

10) −180°

Find the measure of each angle.

11)



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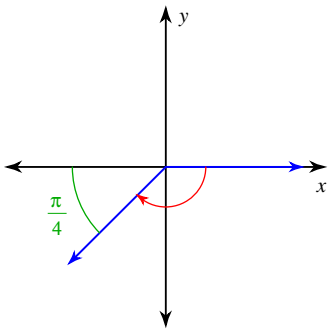

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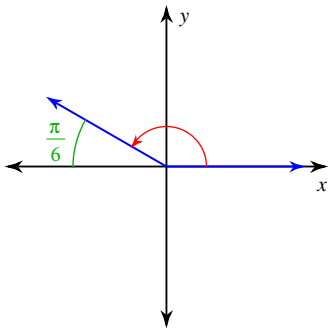

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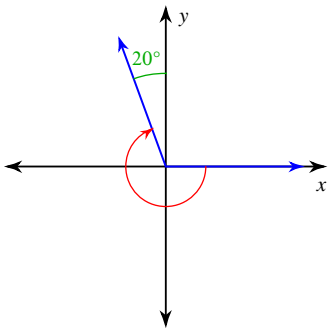

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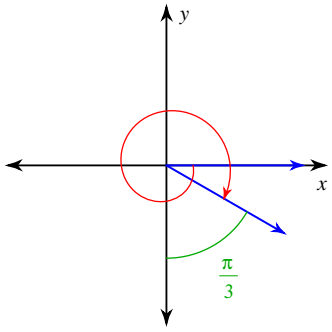

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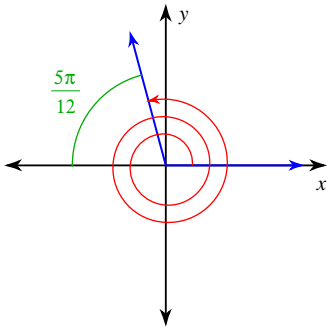

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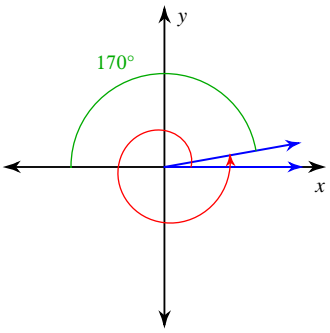
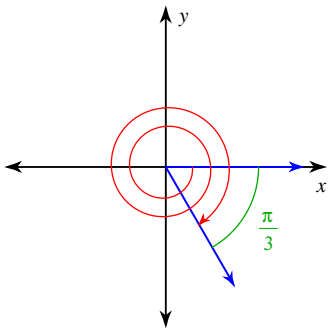
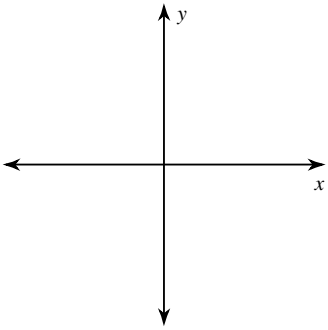


18)

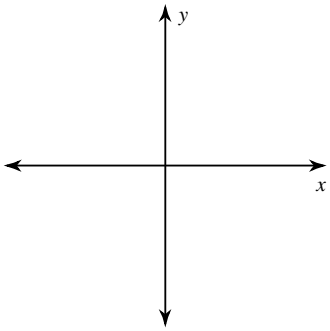


Draw an angle with the given measure in standard position.

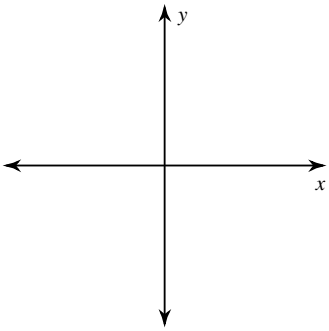
19) 280°



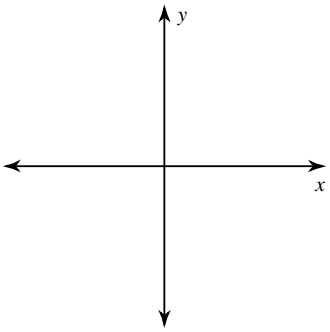
20) 710°



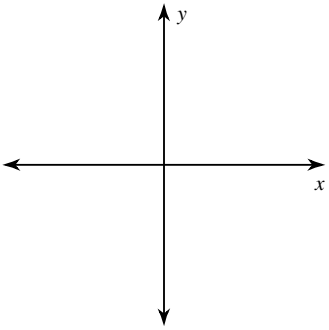
21) −120°



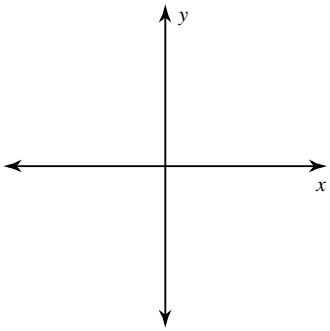
22) $\frac{11\pi}{6}$



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



24) 440°



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

25) −509°

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

27) −340°

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

Kuta Software - Infinite Algebra 2 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° $\frac{19\pi}{6}$

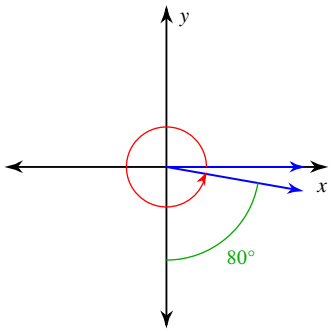
8) −315° $-\frac{7\pi}{4}$

9) $\frac{\pi}{2}$ 90°

10) −180° $-\pi$

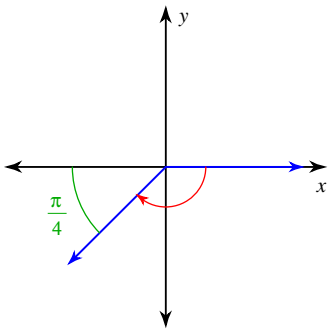
Find the measure of each angle.

11)

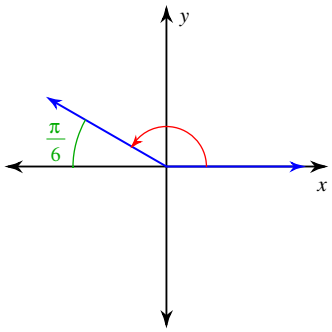


350°

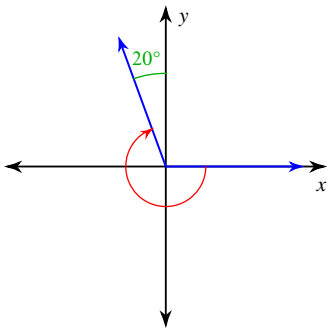
12) $-\frac{3\pi}{4}$



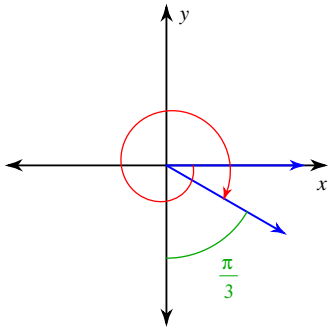
13) $\frac{5\pi}{6}$



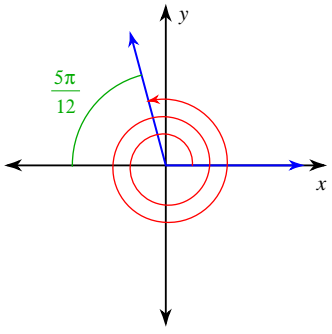
14) −250°



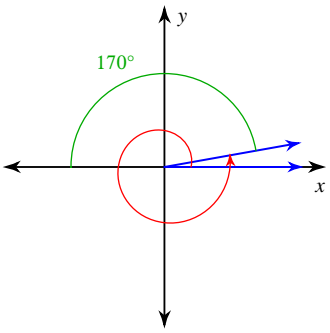
15) $-\frac{13\pi}{6}$



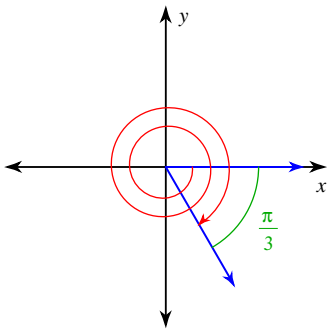
16) $\frac{55\pi}{12}$



17) 370°

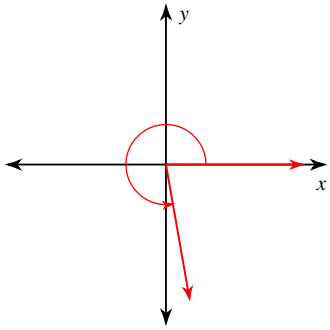


18) $-\frac{13\pi}{3}$

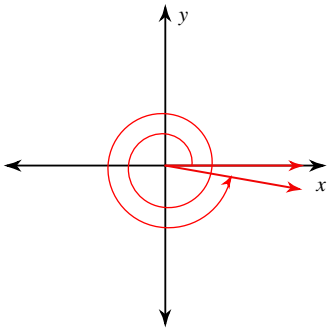


Draw an angle with the given measure in standard position.

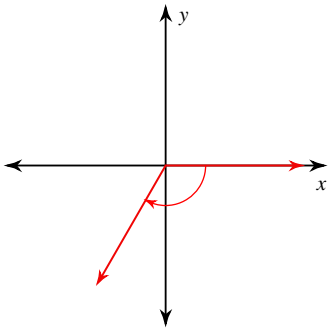
19) 280°



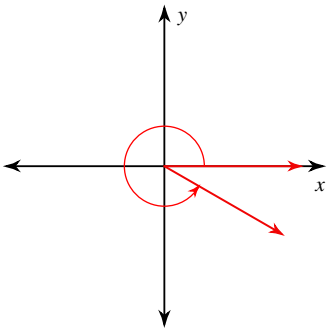
20) 710°



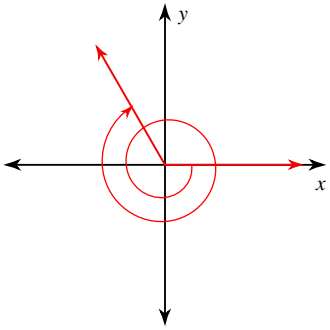
21) −120°



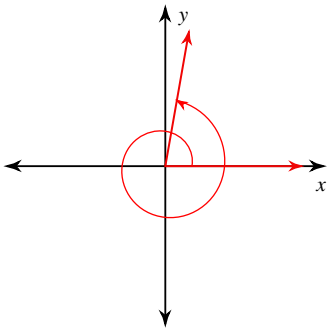
22) $\frac{11\pi}{6}$



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

27) −340° I

28) $\frac{5\pi}{3}$ IV