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°

2) 60°

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

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

5) 570°

6) −315°

**Convert each decimal degree measure into degrees-minutes-seconds and each degrees-minutes-seconds into decimal degrees.**
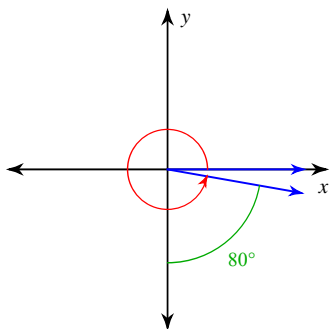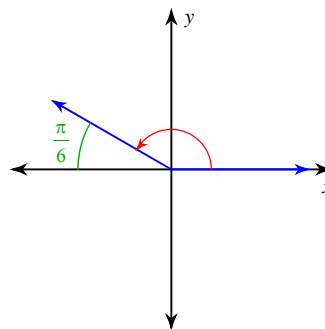
7) 128.77°

8) 232° 7' 57"

9) −154° 47' 42"

10) −0.9225°

**Find the measure of each angle.**

11)
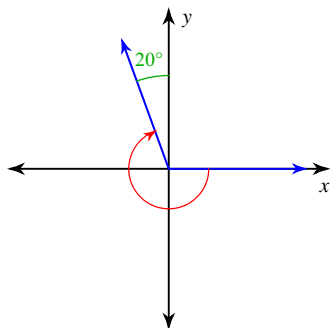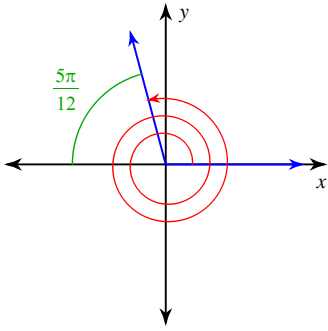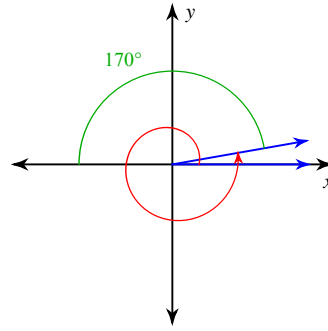


12)



13)



14)

15)


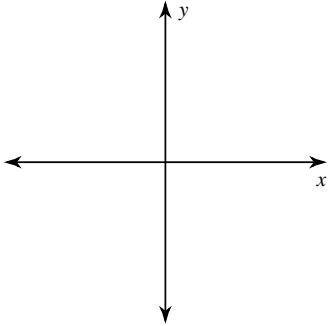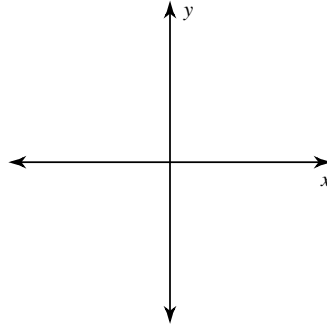
16)
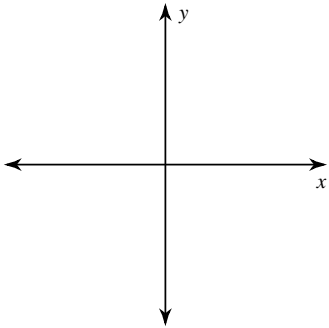


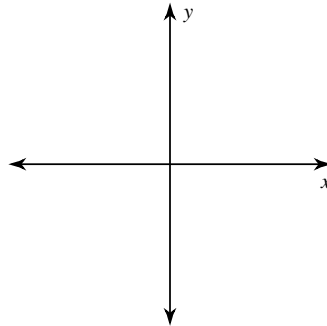**Draw an angle with the given measure in standard position.**

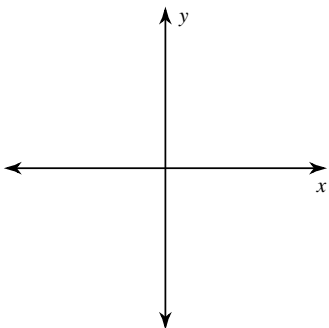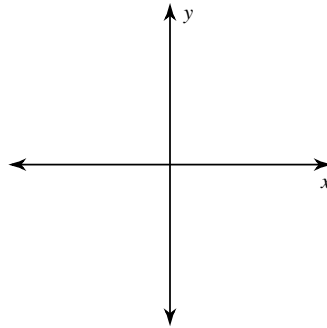17) 280°



18) 710°



19) −120°



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



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



22) 440°



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

23) −509°

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

Name_____

# Angles and Angle Measure

Date_____ Period_____

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

1) 325°  $\dfrac{65\pi}{36}$

2) 60°  $\dfrac{\pi}{3}$

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

   -240°

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

   345°

5) 570°  $\dfrac{19\pi}{6}$

6) −315°  $-\dfrac{7\pi}{4}$

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

7) 128.77°

   128° 46' 12"

8) 232° 7' 57"

   232.1325°

9) −154° 47' 42"

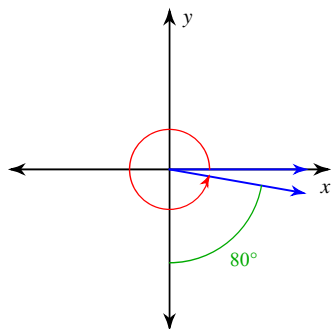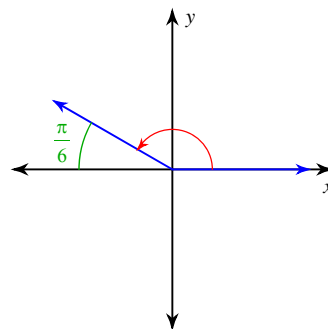   −154.795°

10) −0.9225°

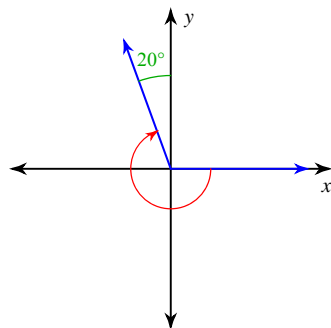   −0° 55' 21"

**Find the measure of each angle.**
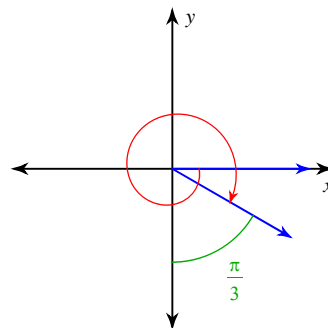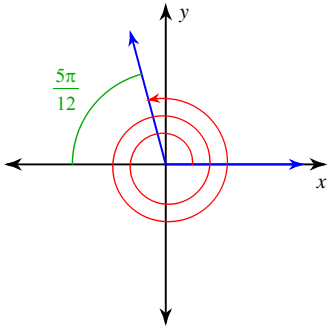
11)



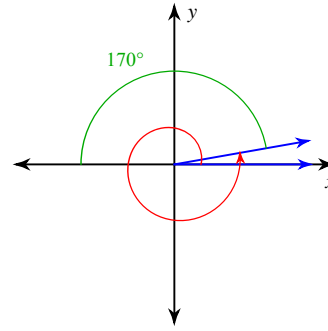350°

12)  $\dfrac{5\pi}{6}$



13)
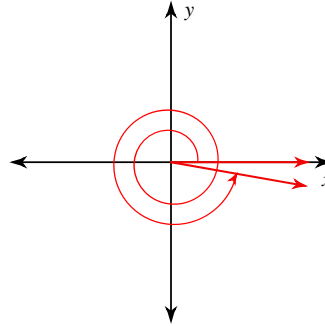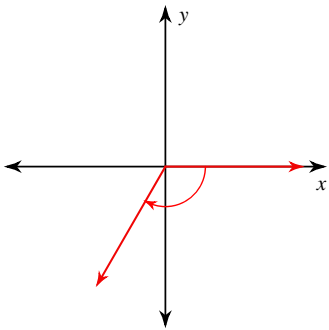


−250°

14)  $-\dfrac{13\pi}{6}$



-1-

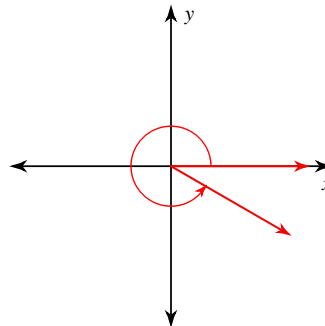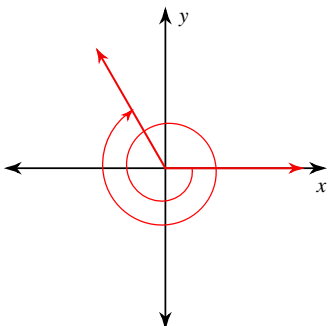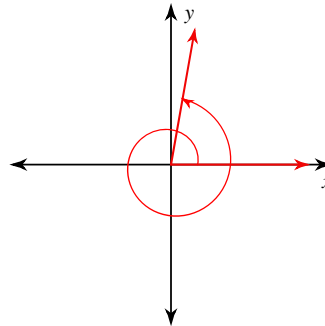15) $\dfrac{55\pi}{12}$



$\dfrac{5\pi}{12}$

16) 370°



170°

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

17) 280°



18) 710°



19) −120°



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



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



22) 440°



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

23) −509°  III

24) $-\dfrac{5\pi}{6}$  III