

Unit 1 Quiz Review

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

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

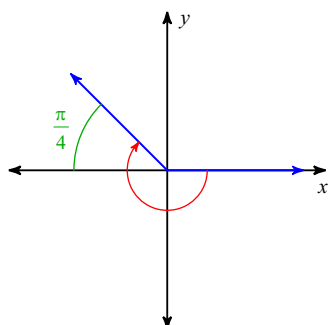
2) $\frac{50\pi}{9}$

3) 600°

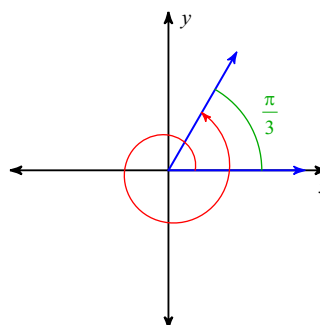
4) -230°

Find the measure of each angle.

5)

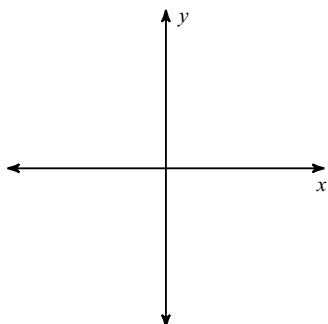


6)

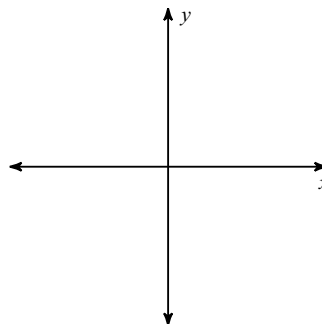


Sketch an angle with the given measure in standard position. State one positive and one negative coterminal angle.

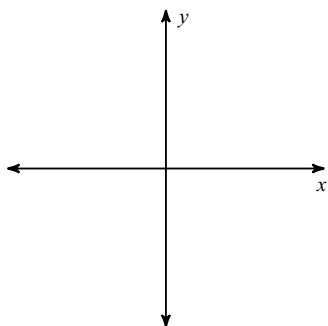
7) $\frac{13\pi}{6}$



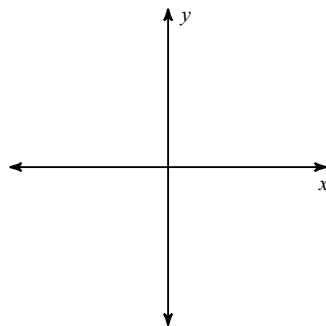
8) -645°



9) -240°



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



Determine the quadrant in which the terminal side of the angle lies.

11) $\frac{\pi}{3}$

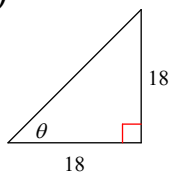
12) $-\frac{7\pi}{6}$

13) $-\frac{5\pi}{3}$

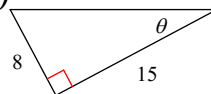
14) $\frac{7\pi}{4}$

Find the value of the trig function indicated.

15) $\csc \theta$



16) $\sec \theta$



In each triangle ABC, angle C is a right angle. Find the value of the trig function indicated.

17) Find $\sec A$ if $c = \sqrt{13}$, $a = 3$

18) Find $\cos A$ if $c = 22$, $b = 11$

Find the value of the trig function indicated.

19) Find $\tan \theta$ if $\csc \theta = \frac{13}{5}$

20) Find $\cos \theta$ if $\csc \theta = \frac{13\sqrt{5}}{19}$