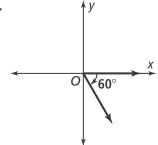
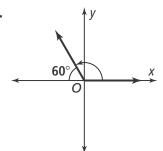
7-2 Additional Practice

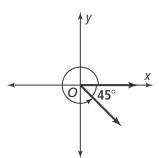
Angles and the Unit Circle

Find the measure of each angle as a positive angle measure, a negative angle measure, and an angle measure that is greater than 360°.

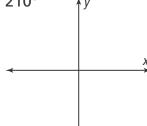
1.





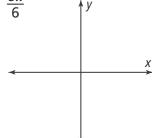


Sketch each angle in standard position.





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



Find the measure of an angle in standard position for each reference angle.

- 7. 10° in Quadrant II 8. 35° in Quadrant IV 9. 34° in Quadrant III

Convert each angle to degrees.

10.
$$\frac{3\pi}{2} =$$
 _____ degrees

11.
$$-\frac{6\pi}{5} =$$
 _____ degrees

10.
$$\frac{3\pi}{2} =$$
 _____ degrees **11.** $-\frac{6\pi}{5} =$ ____ degrees **12.** $\frac{7\pi}{4} =$ ____ degrees

Convert each angle to radians.

- **16.** A Ferris wheel rotates $\frac{9\pi}{8}$ radians prior to making a stop. The total height of the Ferris wheel is 246 ft. How far around did the Ferris wheel travel? Round to the nearest whole foot.
- 17. How does the formula for the circumference of a circle relate to one rotation around the unit circle?