

## مدارس البكالوريا BACCALAUREATE SCHOOLS

Name: \_\_\_\_\_

Date: \_\_\_\_\_

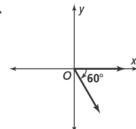
Grade 10

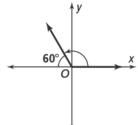
**Graded Worksheet** 

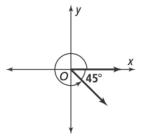
## Angles and the Unit Circle

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

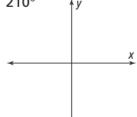
1.

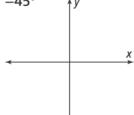




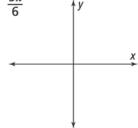


Sketch each angle in standard position.





6. 
$$\frac{5}{2}$$



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

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