

# Transition to College Math

## Guided Practice

## Unit 3 Lesson 2

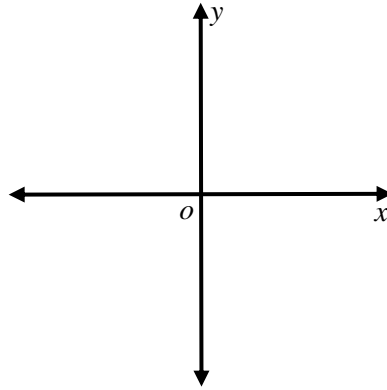
## Angles of Rotation

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

Carefully draw each angle. Then find its reference angle.

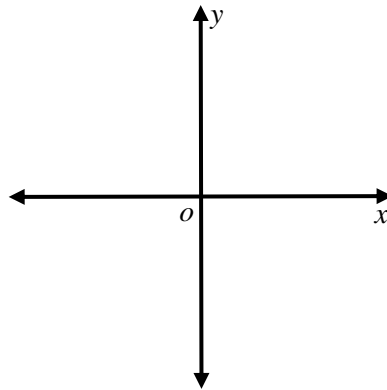
1.  $30^\circ$

Ref =



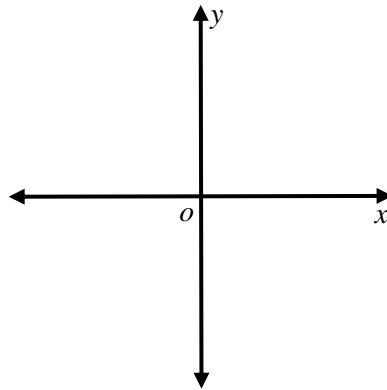
2.  $190^\circ$

Ref =



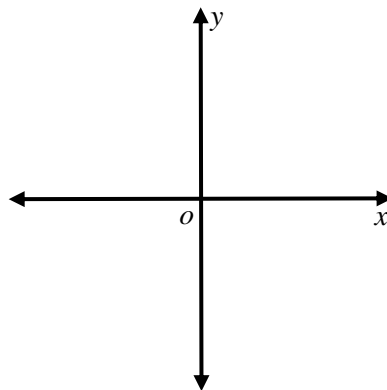
3.  $-320^\circ$

Ref =



4.  $-600^\circ$

Ref =



If the terminal side of  $\theta$  in standard position contains the indicated point, find the exact values of the six trigonometric functions of  $\theta$ .

5.  $(3,4)$

6.  $(-5,12)$

7.  $(-15,-8)$

8.  $(7,-24)$

Find the **exact** value of each trigonometric expression.

9.  $\cos -45^\circ$

10.  $\sin 240^\circ$

11.  $\tan 135^\circ$

12.  $\csc -240^\circ$

13.  $\cot 510^\circ$