

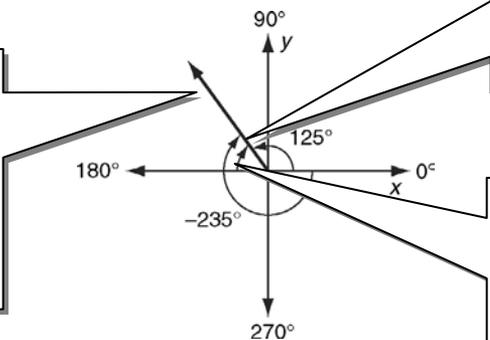
LESSON
10-2

Reading Strategy

Understand Vocabulary

There are different terms that are used to describe an angle of rotation on the coordinate plane.

Coterminal angles are angles in standard position with the same terminal side. The angle measuring -235° is coterminal with the angle measuring 125° .



This angle is in standard position: Its vertex is at the origin and one ray is on the positive x-axis. This is its **terminal side**. It measures 125° .

The **reference angle** is the positive acute angle formed by the terminal side of an angle and the x-axis. This reference angle is 55° .

Answer each question.

1. An angle has a counterclockwise angle of rotation and the terminal side lies in the third quadrant. What do you know about this angle? _____

2. An angle has a clockwise angle of rotation and the terminal side lies in the first quadrant. What do you know about this angle? _____

3. a. Draw a 245° angle in standard position.
b. What is the measure of a coterminal angle?

c. What is the measure of the reference angle?

4. a. Draw a -200° angle in standard position.
b. What is the measure of a coterminal angle?

c. What is the measure of the reference angle?

5. Do all angles have both positive and negative coterminal angles? Explain.

6. Are reference angles always positive? Explain.

