

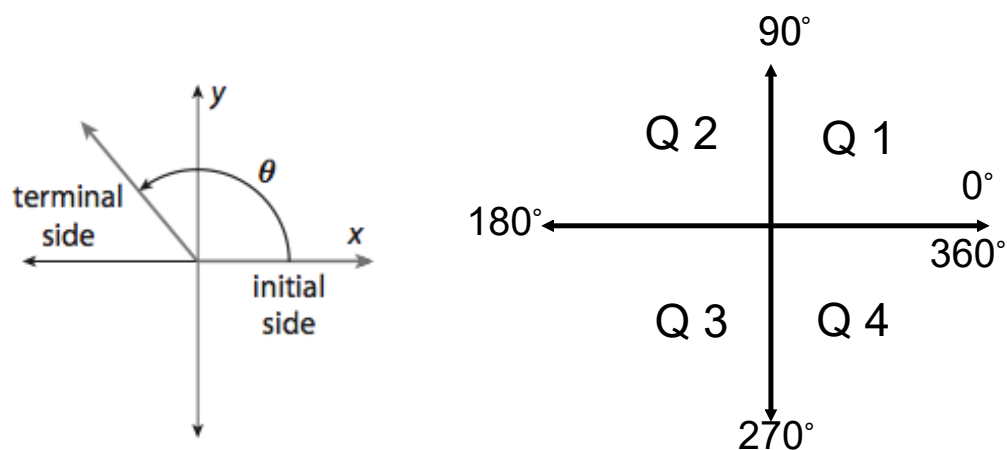
6-2 Angles and Radians

Objectives:

6-2a: I can draw angles in degrees & radians.

6-2b: I can find coterminal angles in degrees & radians.

6-2c: I can find reference angles in radians.

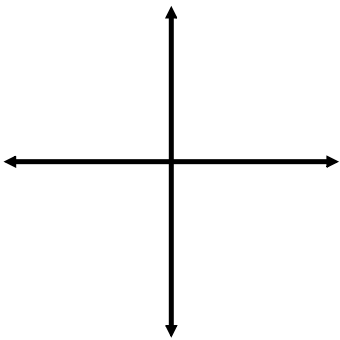


Counter Clockwise rotation: Positive degree

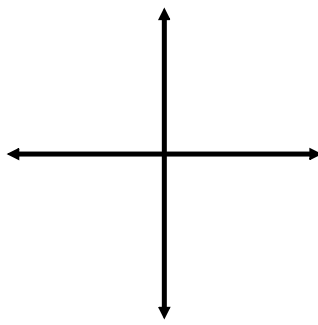
Clockwise rotation: Negative degree

Draw the following angles

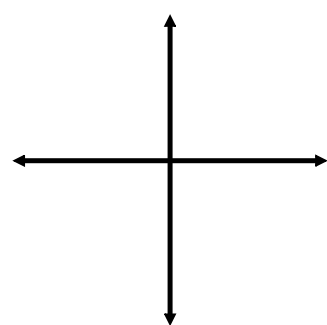
40°



210°

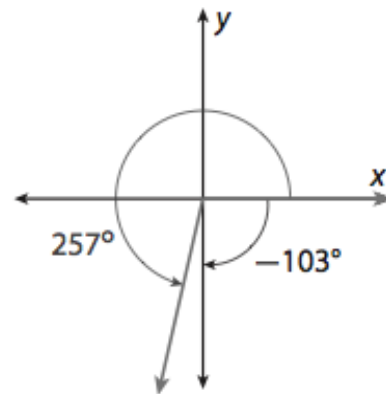


-60°



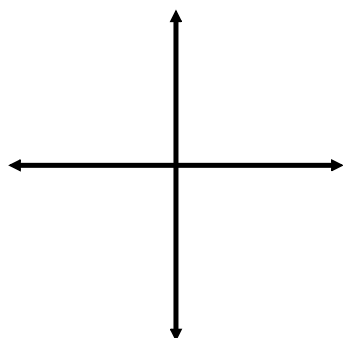
Coterminal Angles: Angles that share the same terminal side

Ex. 257 and -103

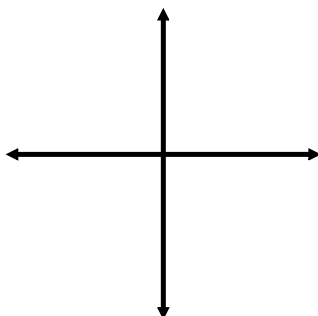


Find a co-terminal angle to each of the following

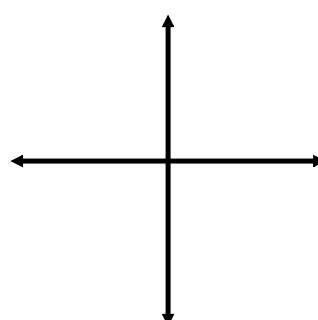
40°



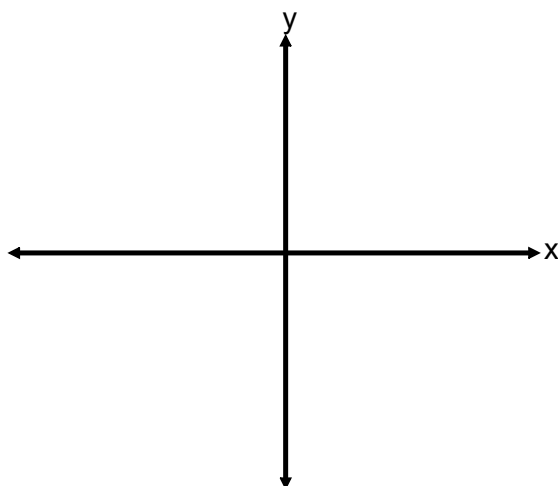
210°



-60°



A) Draw an angle of rotation of 310° . In what quadrant is the terminal side of the angle?



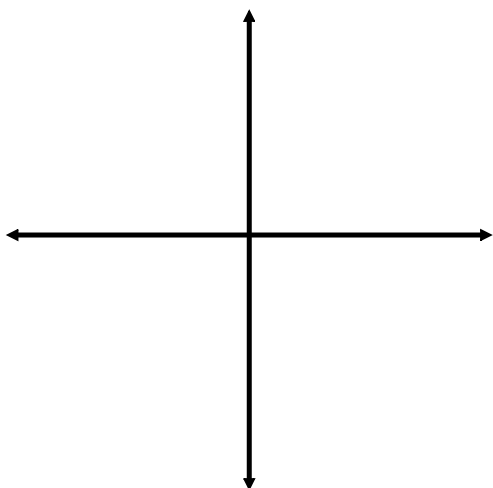
On the same graph draw the following:

B) a negative coterminal angle. What is the angle measure of your angle?

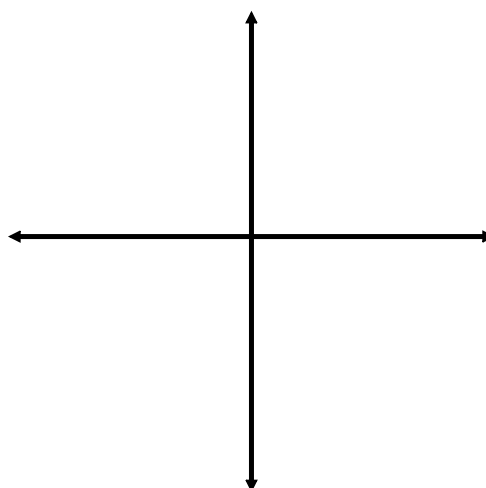
C) a positive coterminal angle. What is the angle measure of your angle?

Draw and give the measure of the new angle

A positive angle
coterminal to 215°



A negative angle
coterminal to 75°



For each angle, find the nearest positive coterminal angle and the nearest negative coterminal angle.

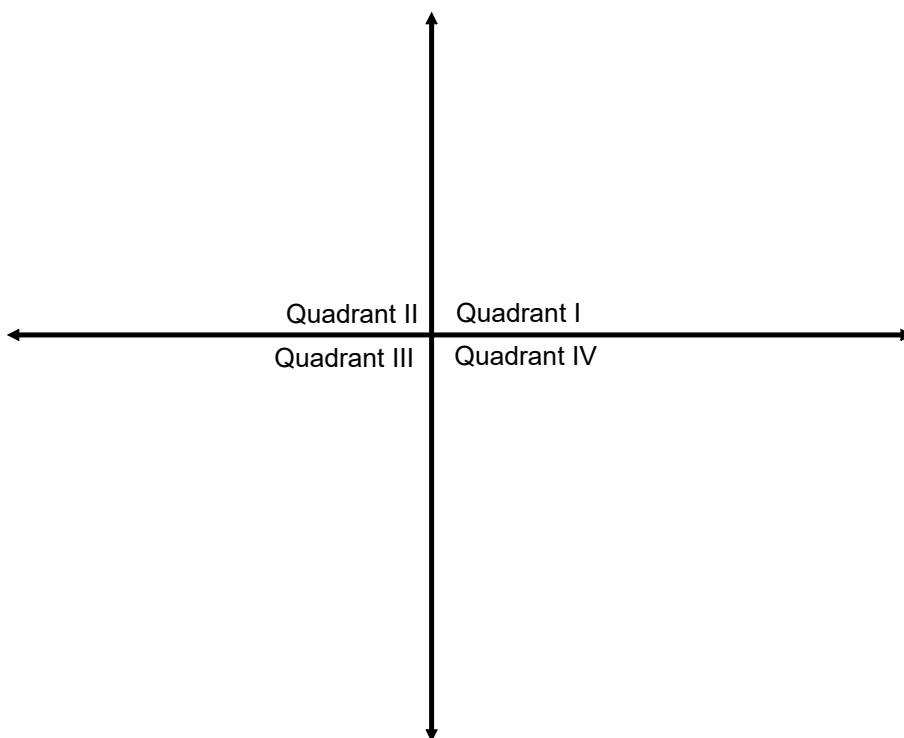
$$-102^\circ$$

$$328^\circ$$

$$19^\circ$$

$$225^\circ$$

Reference Angles: The acute angle formed by the terminal side and the x-axis.



Given the angle, find the reference angle:

330°

115°

460°