

NAME: _____

P.I. A2.A.60: Sketch the unit circle and represent angles in standard position

1. Explain how to find the coordinates of a point where the terminal side of an angle bisects the unit circle.
2. Write a positive angle in radian measure and give its coterminal negative angle in radians.
3. Find two coterminal angles that are in the third quadrant.

Answers may vary. Sample: The point where the terminal side of an angle bisects the unit circle has an x -coordinate equal to the cosine of the angle and the y -coordinate equal to the sine of the angle.

[1] Determine the sign of each coordinate based on which quadrant the terminal side is in.

[2] Answers may vary. Sample: $\frac{3\pi}{2}$ and $-\frac{\pi}{2}$

[3] Answers may vary. Sample: 210° , -150°