

Algebra 2 Honors

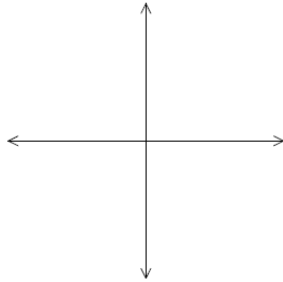
WS: 10.1, 10.2 Quick Review

Name _____

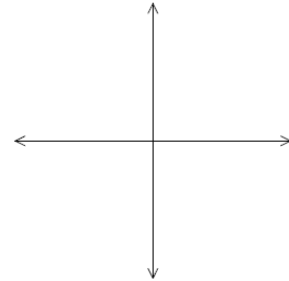
Date _____ Block _____

For the angles listed below: sketch the angle, identify the quadrant in which the angle lies, find the reference angle, and determine two angles coterminal with the given angle (one positive and one negative).

1. 510°



2. $-\frac{31\pi}{18}$



3. Point $P(4, -3)$ is on the terminal side of some angle theta. Find the values of the six trigonometric functions of theta.

4. Identify five angles that have a reference angle of $\frac{\pi}{6}$.

5. Convert 240° to radians.

6. A plane is flying at an elevation of 35,000 feet within sight of the Gateway Arch in St. Louis, Missouri. The pilot would like to estimate her distance from the Arch. She finds that the angle of depression to a point on the ground below the arch is 22° . What is the horizontal distance between the plane and the arch?