13.2. Advanced Algebra

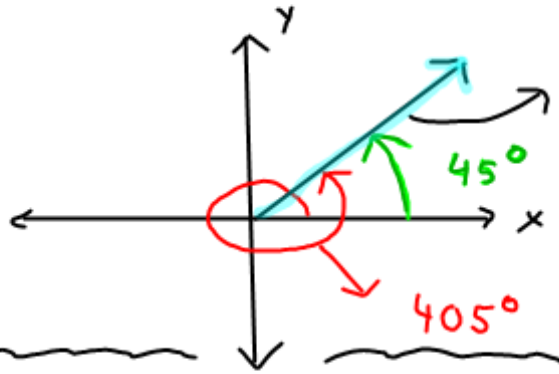
DATE: 5|5

Angles and Angle Measure (Part 2)

Target 9B. Draw an angle of rotation, find its coterminal angles and determine the quadrant in which it lands.

Coterminal Angles

When two angles in standard position on the same coordinate plane have the same terminal sides, they are called **coterminal angles**.



45° and 405° have the same terminal side, so they are co-terminal.

Rule: To find co-terminal ∠s add or subtract multiples of 360°

Find one angle with positive measure and one angle with negative measure co-terminal with each angle.

Find one angle with positive measure and one angle with negative measure co-terminal with each angle.

1) 240°

240
+360
600°

2) 210°

210
720
930°

3) -15°

-15
360
345°

4) -140°

-140
360
220°

240
−360
−120°

210
−360
−150°

−15°
−360
−375°

−140
−360
−500°