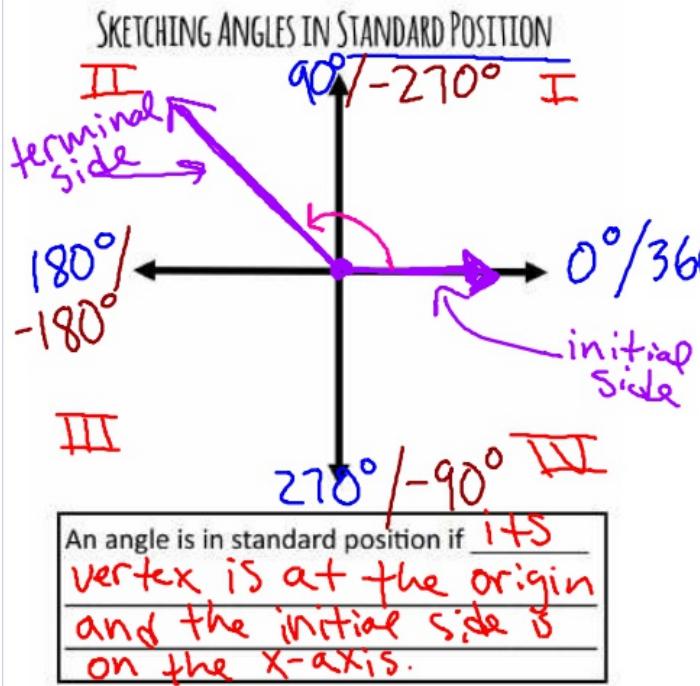


Name: _____ Hour: _____ Date: _____

Sketching Angles in Standard Position/Co-Terminal Angles Notes



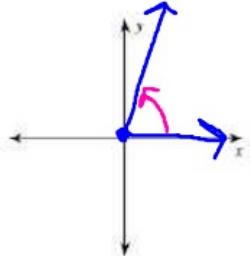
Things to Remember About Angles in Standard Position:

- Positive angles move counter-clockwise.
- Negative angles go clockwise.
- The terminal side determines the size of the angle.

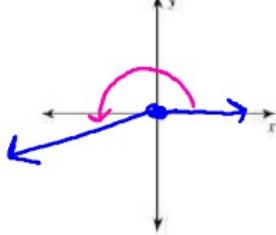
Sketching Angles in Standard Position Examples:

DIRECTIONS: State which quadrant the terminal side of each angle lies in and then sketch the angle.

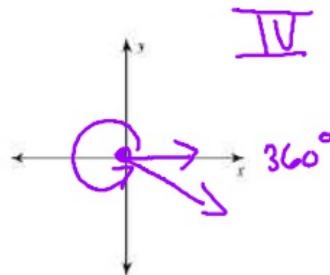
1) 60° Q I



2) 210° Q III

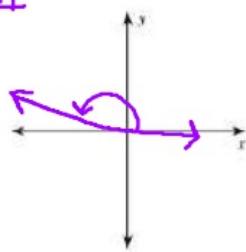


3) 315°



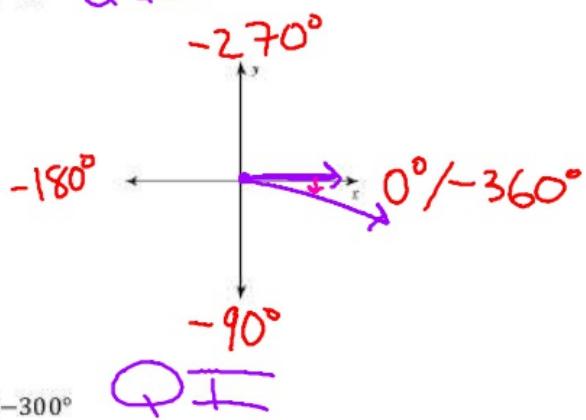
4) ~~355°~~ Q II

160°

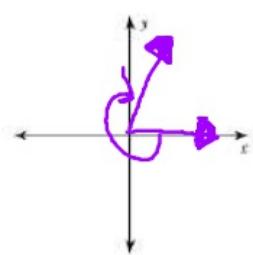


What about negative angles???

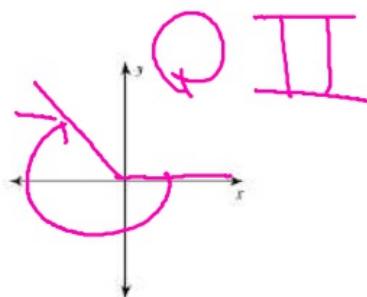
1) -10° Q IV



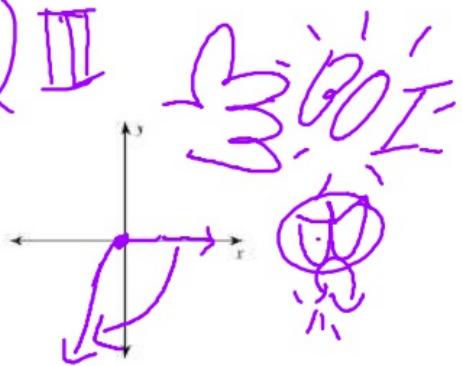
3) -300° Q I



2) -240°



4) -120° Q III



Coterminal Angles:

DEFINITION: angles that share a terminal side

Main Ideas:

- We usually want angles between 0° and 360°
- If positive, subtract 360° .
- If negative add 360° .

Examples: Find an angle between 0° and 360° coterminal with the given angle

1) $400^\circ - 360^\circ = 40^\circ$

2) $-20^\circ + 360^\circ = 340^\circ$

3) $650^\circ - 360^\circ = 290^\circ$

4) $-800^\circ + 360^\circ = 440^\circ$
 $= 80^\circ + 360^\circ$
 $\boxed{280^\circ}$