

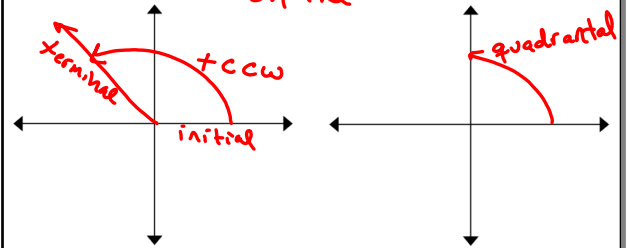
Initial/Terminal Sides, Coterminal Angles, and Standing Position

Sep 30 - 9:04 PM

Generating Angles

Initial Side: **begin (+ x-axis)**

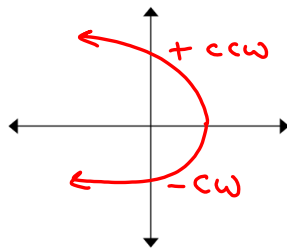
Terminal Side: **Any quad. including on the axes**



Sep 30 - 9:05 PM

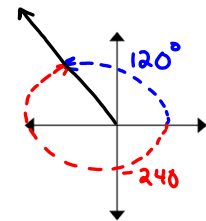
Negative Angles: **(-) cw**

Positive Angles: **(+) ccw**



Sep 30 - 9:06 PM

Coterminal Angles:
End at same place



Examples of Coterminal Angles: 140° and $\pm 220^\circ$, -500° and 220°

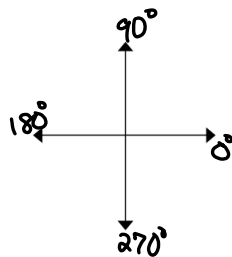
- the sum of the measure of coterminal angles will equal 360° or 720° .

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Standard Position:

Quadrantal Angles:

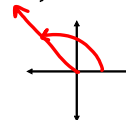
$0^\circ, 90^\circ, 180^\circ, 270^\circ$



Sep 30 - 9:07 PM

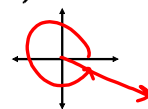
Draw a sketch and state which quadrant, if any, the following angles reside:

1) 115°

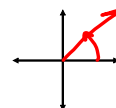


- direction of rotation
- terminal side

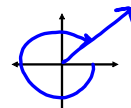
2) 340°



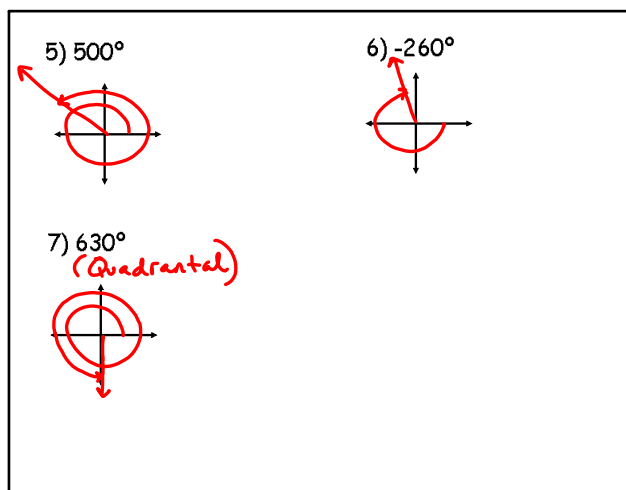
3) 60°



4) -300°



Sep 30 - 9:07 PM

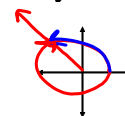


Feb 12-3:38 PM

Draw the pair of coterminal angles and then tell which quadrant the terminal side resides.

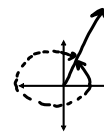
1) 150° and -210°

II.



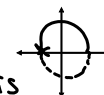
2) 40° and -320°

I.



3) 180° and -180°

on - x axis
quadrantal



Sep 30 - 9:08 PM

Homework:
Worksheet #11.1

Feb 9-9:19 AM