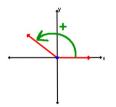
Wednesday, April 22, 2020

Angles in Standard Position

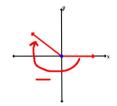
and

Reference Angles

Positive Angles are measured starting from the positive x-axis and rotating in a Counter-Clockwise direction.



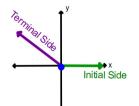
Negative Angles are measured starting from the positive x-axis and rotating in a Clockwise direction.



Angles is Standard Position:

Vertex is at the origin.

One of the rays (sides) is on the positive x-axis.



Initial Side:

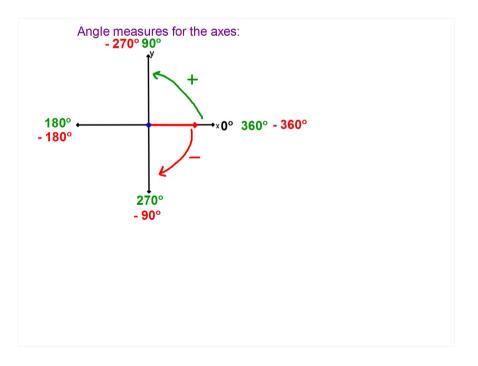
The side on the Positive x-axis.

It's where the angle starts

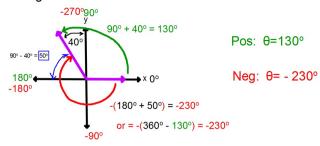
Terminal Side:

The other ray that forms the angle.

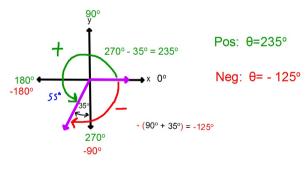
It's where the angle stops.



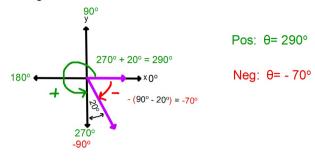
State both a positive and negative measure for this angle in Standard Position.



State both a positive and negative measure for this angle in Standard Position.



State both a positive and negative measure for this angle in Standard Position.



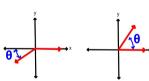
Reference Angle:

The acute angle formed by the terminal side and the x-axis.

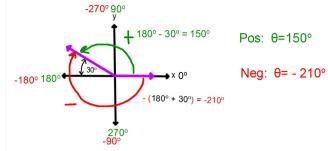
6 is the reference angle for each angle shown in Standard Position





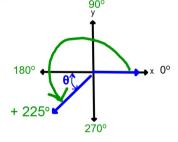


Use the given reference angle to state both a positive and negative measure for this angle in Standard Position.



State the reference angle for the given angle that is in Standard Position:

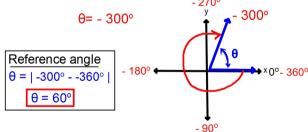
Reference angle $\theta = 225^{\circ} - 180^{\circ}$ $\theta = 45^{\circ}$



The measure of a Reference Angle can be calculated by finding the difference between the terminal side of the Given Angle and the measure at the nearest x-axis.

A Reference Angle is always positive so you'll be finding the POSITIVE difference (i.e. absolute value).

State the reference angle for the given angle that is in Standard Position:



You can now do Practice #20.