

Daily Agenda

Learning Target: I can graph angles, arcs, and find reference angles.

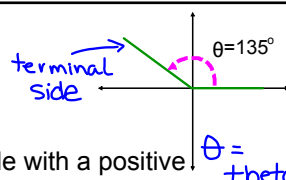
Homework
8.1 Worksheet

Why fit in when you were born to stand out?
- Dr. Suess

Nov 15-8:24 PM

8.1 Introduction to Trig

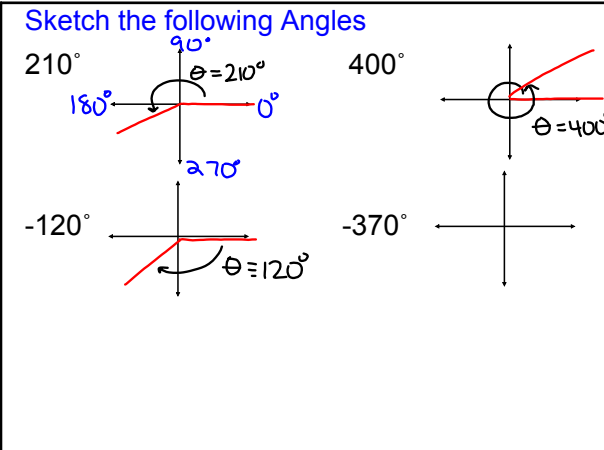
Sketching Angles



- A circle is 360°
- When we sketch an angle with a positive measure, we are moving counterclockwise.
- We indicate the direction of the angle.
- The terminal side is where the angle ends.

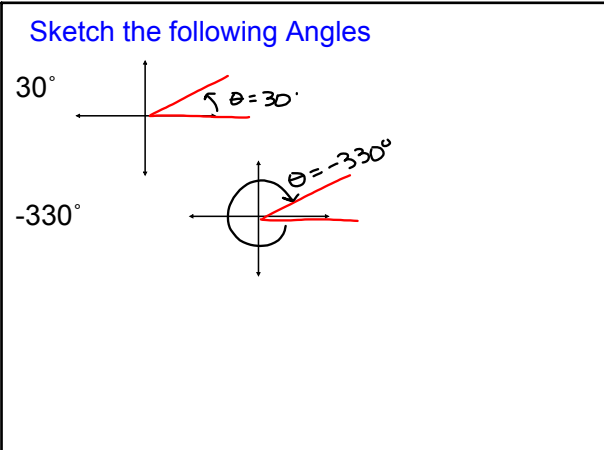
Feb 28-8:01 AM

Sketch the following Angles



Feb 28-8:01 AM

Sketch the following Angles



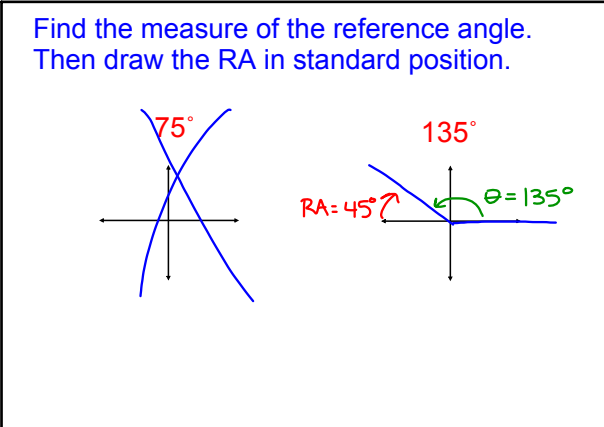
Feb 28-8:01 AM

coterminal angles
angles with the same terminal side

reference angle
acute angle formed by the x-axis and the terminal side. show with a small arc

Feb 28-8:12 AM

Find the measure of the reference angle. Then draw the RA in standard position.



Feb 28-8:16 AM

Find the measure of the reference angle. Then draw the RA in standard position.

215° 340°

Feb 28-8:16 AM

Find the measure of the reference angle. Then draw the RA in standard position.

970° 700°

Feb 28-8:16 AM

Sketching Arcs (radians)

- Another way to measure an angle/arc is in radians.
- An arc is how far around a circle the angle opens with a radius of 1. (Distance)
- How far is once around the circle? $C = 2\pi r$
 2π
- So halfway around the circle is ...

Feb 28-8:19 AM

What is the difference between an angle and an arc?

• Arc (x) is how far a point has traveled in a circle. *

• Angle (θ) is how far the point has rotated in a circle.

Feb 28-8:25 AM

Sketch each arc $\frac{\pi}{4}, \frac{-\pi}{6}, \frac{11\pi}{3}, \frac{-3\pi}{4}$

Feb 28-8:23 AM

In closing . . .

Explain to your table how to sketch angles, arcs, and reference angles

Feb 20-9:01 AM