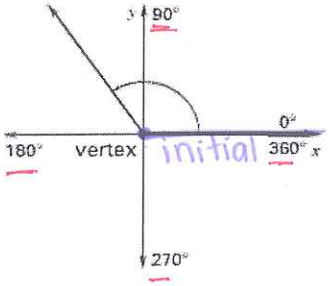
Learning Target(s): I am able to draw angles in standard position
I am able to find coterminal angles.

13.2 Notes: Define General Angles and Use Radian Measure Day 1

initial side and terminal side – An angle can be formed by fixing one ray, called the initial side and rotating the other ray called the terminal side about the vertex.

**The terminal side of an angle may make more than one complete rotation

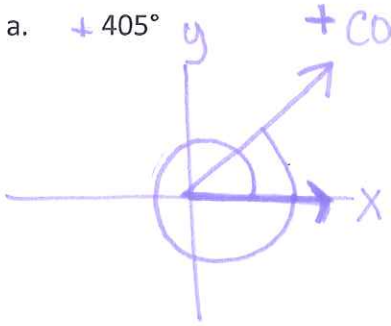
standard position – The position of an angle whose vertex is at the origin and its initial side lies on the positive x-axis.



* Going counterclockwise about the origin results in a positive angle measure; going clockwise about the origin results in a negative angle measure.

Ex. 1
Draw an angle with the given measure in standard position.

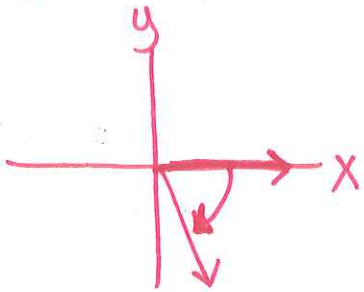
a. + 405°



405
- 360
45°

b. -65°

- ↓ clockwise

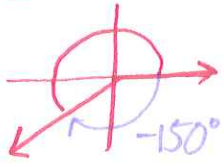


coterminal – angles in standard position whose terminal sides coincide

*Find coterminal angles by adding or subtracting multiples of 360°

Ex. 2
Find one positive and one negative angle that are coterminal with 210.

210°



210
+ 360
570

210
- 360
-150°

Try it!

1. Draw an angle with the given measure in standard position.

a. 500°

b. -50°

c. 640°

d. -150°

2. Find one positive and one negative angle that are coterminal with:

a. -215°

b. 570°

c. 65°

d. 230°

Find the degrees for the special angles.