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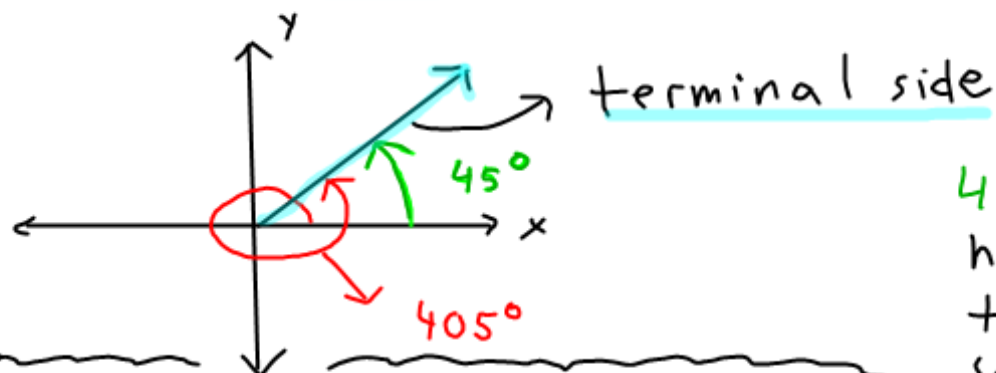
## 13.2. Advanced Algebra Angles and Angle Measure (Part 2)

DATE: 5/5

Target 9B. Draw an angle of rotation, find its coterminal angles and determine the quadrant in which it lands.

### Coterminal Angles

When two angles in standard position on the same coordinate plane have the same terminal sides, they are called coterminal angles.



45° and 405°  
have the same  
terminal side,  
so they are co-terminal.

Rule: To find co-terminal  $\angle$ s  
add or subtract multiples of  $360^\circ$

Find one angle with positive measure and one angle with negative measure co-terminal with each angle.

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Find one angle with **positive** measure and one angle with **negative** measure co-terminal with each angle.

1)  $240^\circ$

$$\begin{array}{r} 240 \\ + 360 \\ \hline 600^\circ \end{array}$$

$$\begin{array}{r} 240 \\ - 360 \\ \hline -120^\circ \end{array}$$

2)  $210^\circ$

$$\begin{array}{r} 210 \\ 720 \\ \hline 930^\circ \end{array}$$

$$\begin{array}{r} 210 \\ - 360 \\ \hline -150^\circ \end{array}$$

3)  $-15^\circ$

$$\begin{array}{r} -15 \\ 360 \\ \hline 345^\circ \end{array}$$

$$\begin{array}{r} -15^\circ \\ - 360 \\ \hline -375^\circ \end{array}$$

4)  $-140^\circ$

$$\begin{array}{r} -140 \\ 360 \\ \hline 220^\circ \end{array}$$

$$\begin{array}{r} -140 \\ - 360 \\ \hline -500^\circ \end{array}$$