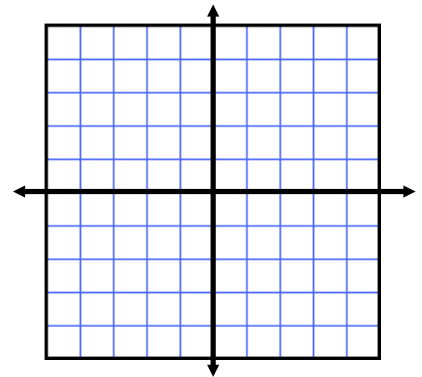


Algebra II

12-1

Angles and Degree Measure

Angles in the Standard Position -

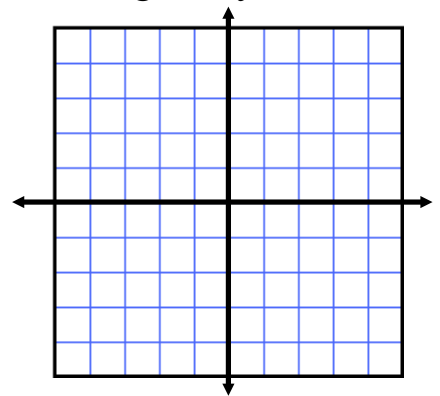


Draw an angle in the standard position and label its parts.

Sketch each angle in standard position. Indicate its rotation by a curved arrow. Classify each angle by its quadrant. If the angle is a quadrantal angle, say so.

1 a) 135°

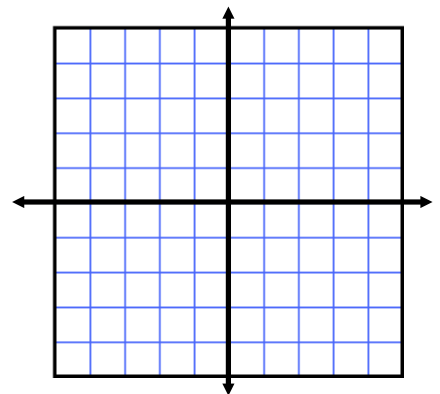
b) -135°



Quadrantal angle -

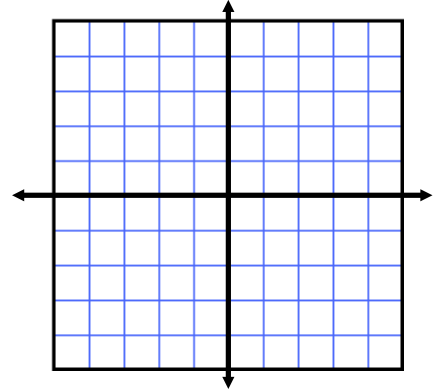
Sketch in standard position the angle described and then find its measure.

13) $\frac{2}{3}$ of a counterclockwise revolution



Sketch each angle in standard position when $n = 0$, $n = 1$, $n = 2$, and $n = -1$.

19) $45^\circ + 360^\circ \cdot n$



Coterminal angles -

For the following,

- Write a formula for the measures of all angles coterminal with the given angle.
- Use the formula to find two angles, one positive and one negative, that are coterminal with the given angle.

23) 35°

Express in degrees to the nearest tenth of a degree.

31) $15^\circ 30'$

Express in degrees and minutes to the nearest minute.

39) 25.4°

Express in degrees, minutes, and seconds to the nearest second.

43) 34.41°

Assignment: Pg. 552 2-46 even
