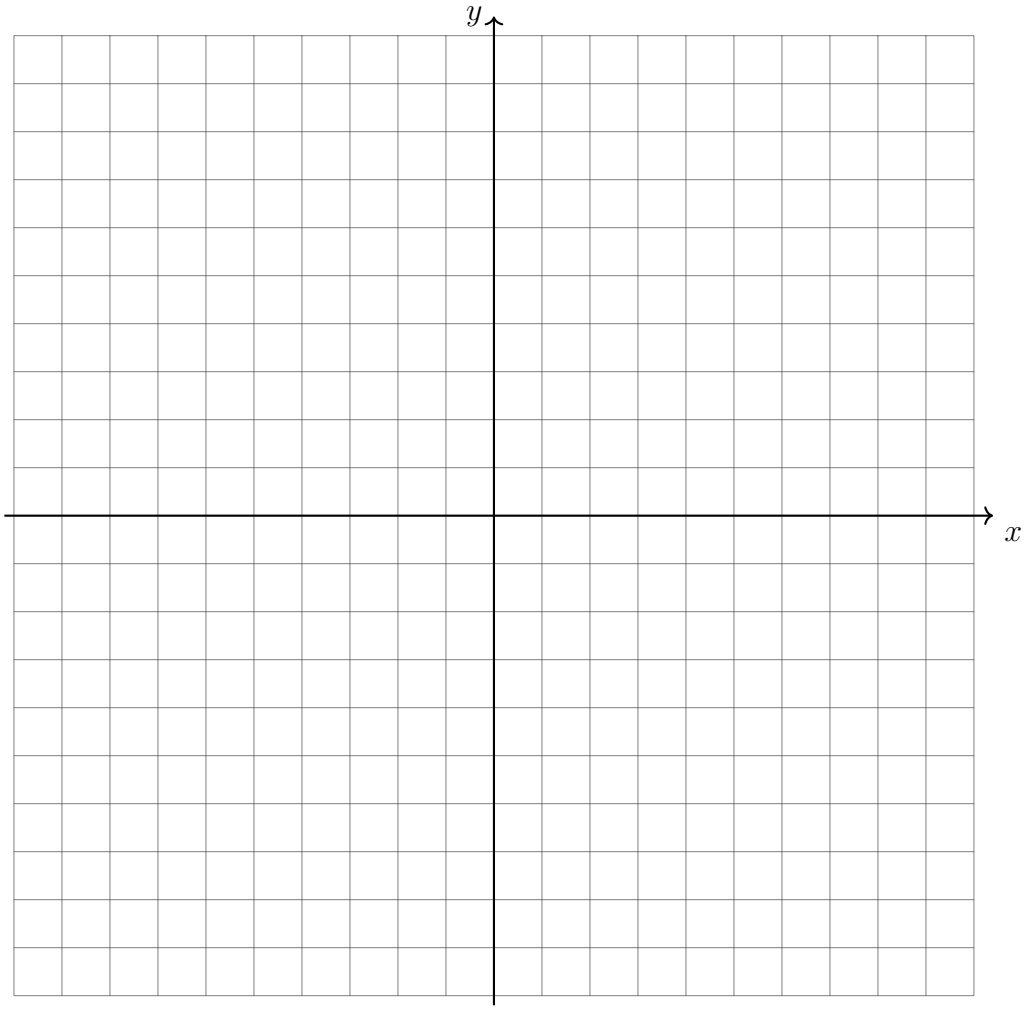
BECA / Dr. Huson / Regents Prep: Graphs First and last name:
2 December 2024 Section:

1.14 Do Now: Graphing inequalities

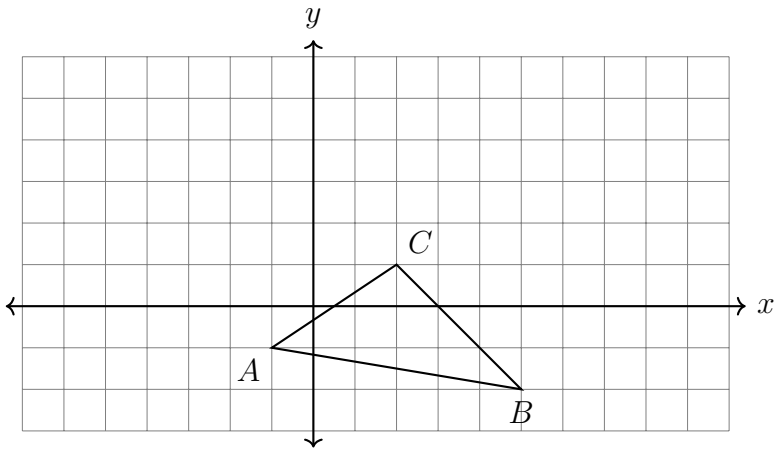
1. Graph and label the two inequalities on the grid.

   $y \geq 2x - 2$ $x + \frac{1}{2}y < 3$



   Mark a point in the solution set and label it with the ordered pair.

2. Slide $\triangle ABC$ to the right three and up four. Label the image $\triangle A'B'C'$.

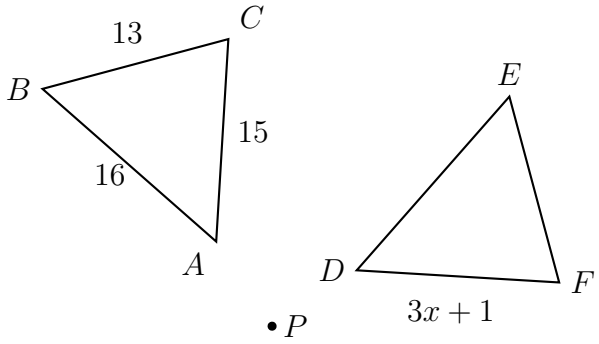


3. In the diagram below, $\triangle ABC$ with sides of 13, 15, and 16, is mapped onto $\triangle DEF$ after a clockwise rotation of 90° about point P.

   (a) What is A mapped to? $A \rightarrow$

   (b) What corresponds to F?

   (c) Given $DF = 3x + 1$. Find x.



4. On the axes below, graph the point $P(2, 4)$ and its image, P', after a rotation of 90° counterclockwise around the origin. Label both points as a coordinate pair.