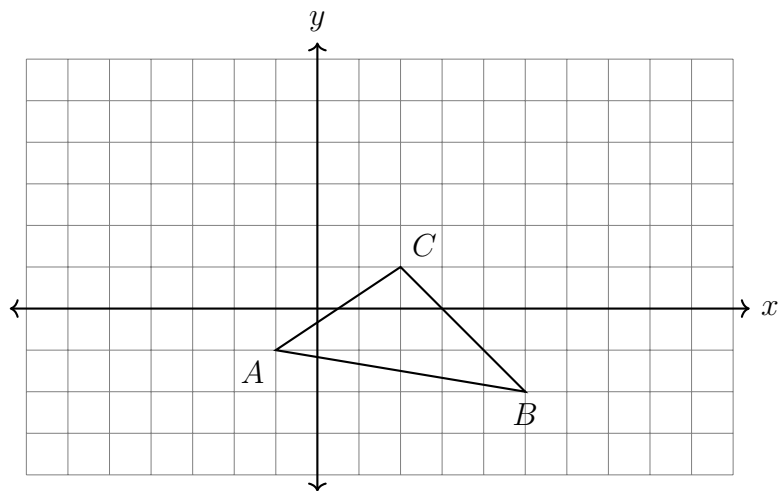


Name:

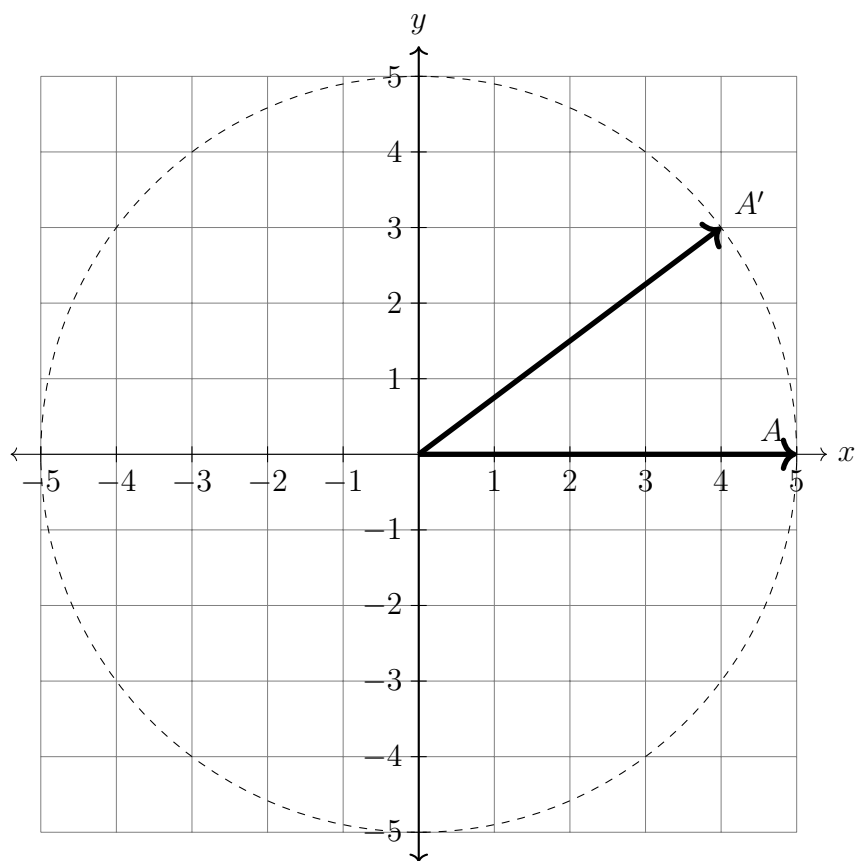
8.6 Homework: Mixed congruence transformations

CCSS.HSG.CO.A.5

1. Do Now: Slide $\triangle ABC$ to the right three and up four. Label the image $\triangle A'B'C'$.



2. A vector from the origin \overrightarrow{OA} is shown rotated counterclockwise around O .
- (a) Using a protractor, measure the angle of rotation
 - (b) Mark and label the point $B(3, -4)$. Draw \overrightarrow{OB} .
 - (c) Find the measure of the combined angle, $m\angle A'OB$.



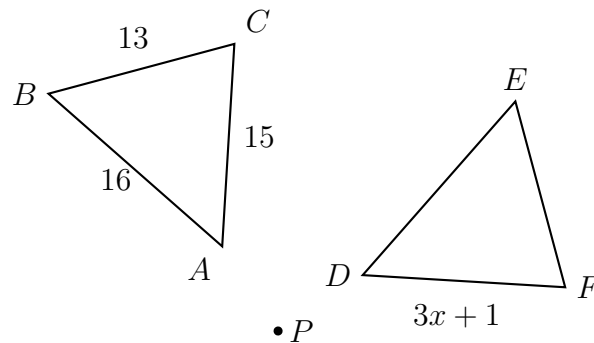
Name:

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.

