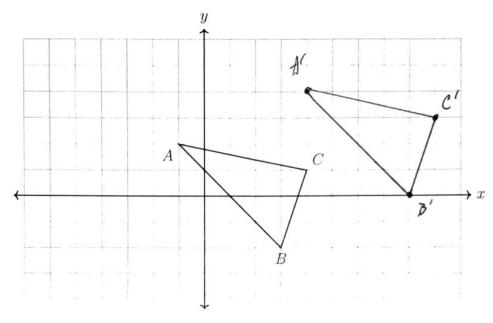
7.9 Pretest: Mixed congruence transformations

CCSS.HSG.CO.A.5

1. Slide $\triangle ABC$ to the right five and up two. Label the image $\triangle A'B'C'$.

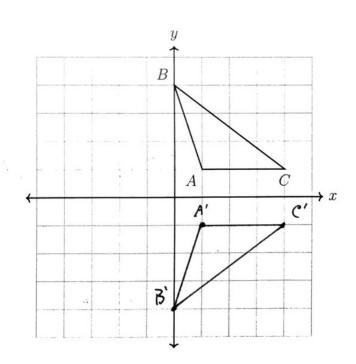


2. Reflect the triangle over the x-axis, $\triangle ABC \rightarrow \triangle A'B'C'$. Complete the table of the coordinates and plot and label the image on the grid.

$$A(1,1) \rightarrow A(1,-1)$$

$$B(0,4) \rightarrow B'(0,-4)$$

$$C(4,1) \rightarrow C'(4,-1)$$





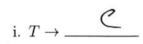
(a) Fully specify the transformation.

Rotate 90°

Conter Clockwise

around P

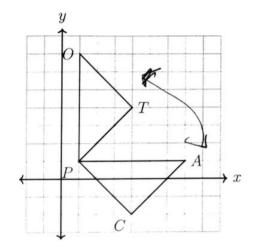
(b) Identify each corresponding object.



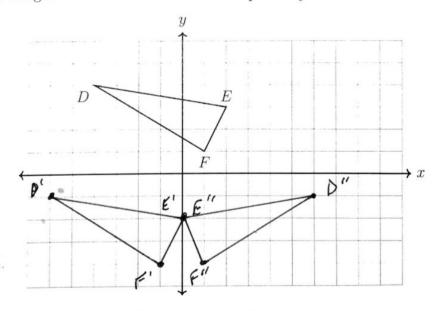
iii.
$$P \rightarrow P$$

iv.
$$\angle PTO \cong PCA$$

v.
$$\overline{\mathcal{O}} \cong \overline{CA}$$



4. Translate $\triangle DEF$ by $(x,y) \rightarrow (x-2,y-5)$, then reflect the result over the y-axis. Label the images $\triangle D'E'F'$ and $\triangle D''E''F''$ respectively.



5. Check those transformations that are rigid motions.

Reflection

Rotation

□ Dilation

An isometry

Translation

☐ Horizontal stretch