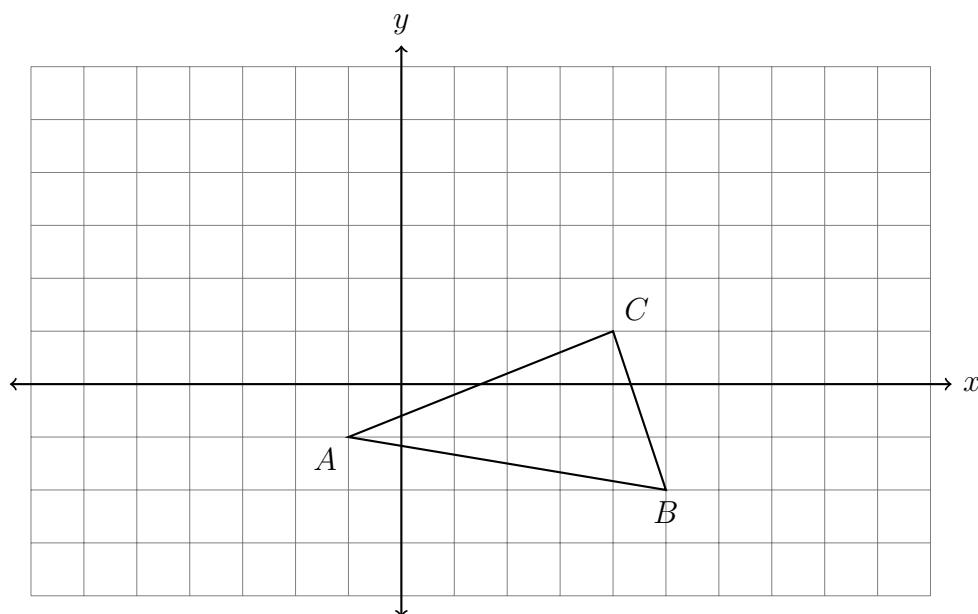


Name:

BECA / Dr. Huson / Geometry 5 Congruence Transformations

**5.9 PreQuiz: Mixed congruence transformations****CCSS.HSG.CO.A.5**

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

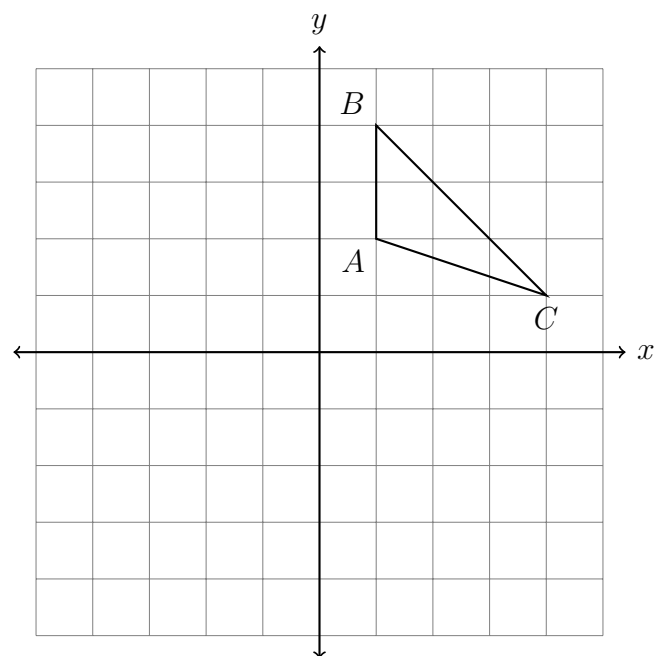


2. Reflect the triangle over the  $y$ -axis,  $\triangle ABC \rightarrow \triangle A'B'C'$ . Complete the table of the coordinates and plot and label the image on the grid.

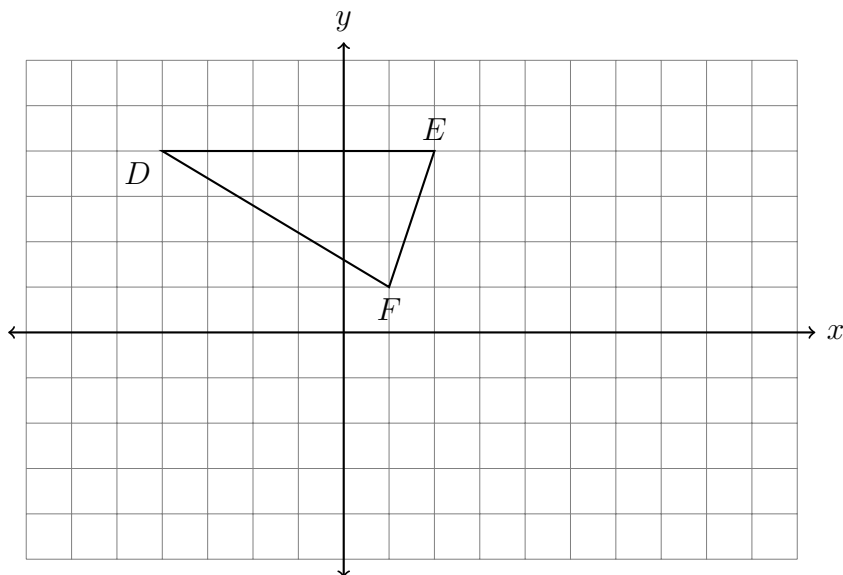
$$A(1, 2) \rightarrow$$

$$B(1, 4) \rightarrow$$

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



3. Translate  $\triangle DEF$  by  $(x, y) \rightarrow (x + 5, y - 1)$ , then reflect the result over the  $x$ -axis. Label the images  $\triangle D'E'F'$  and  $\triangle D''E''F''$  respectively.

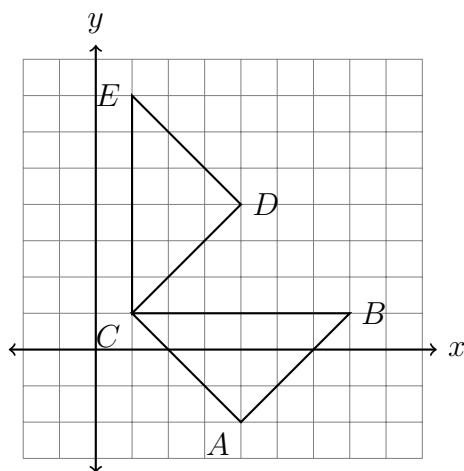


4. A transformation maps  $\triangle ABC \rightarrow \triangle DEC$ , shown below.

(a) Fully specify the transformation.

(b) Identify each corresponding object.

- i.  $A \rightarrow$  \_\_\_\_\_
- ii.  $B \rightarrow$  \_\_\_\_\_
- iii.  $C \rightarrow$  \_\_\_\_\_
- iv.  $\angle ACB \cong$  \_\_\_\_\_
- v. \_\_\_\_\_  $\cong \overline{DE}$



5. Check those transformations that are rigid motions.

☐ Dilation

☐ Rotation

☐ Translation

☐ An isometry

☐ Reflection

☐ Horizontal stretch