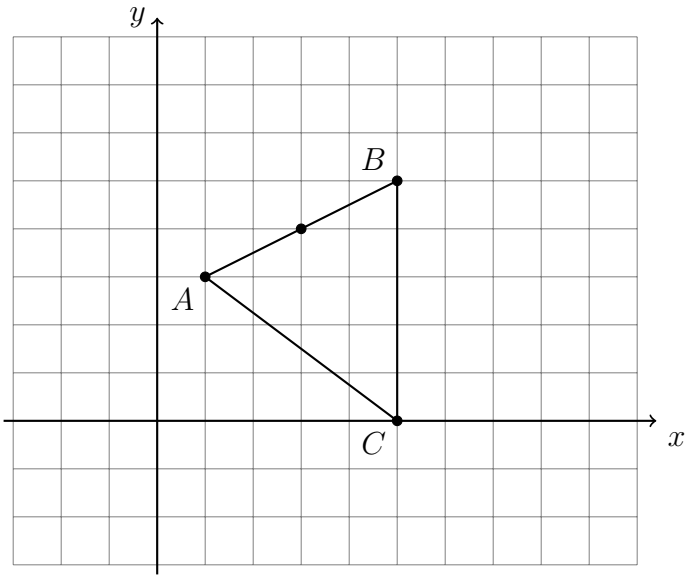
BECA / Dr. Huson / Geometry 07-Similarity Name:
pset ID: 99

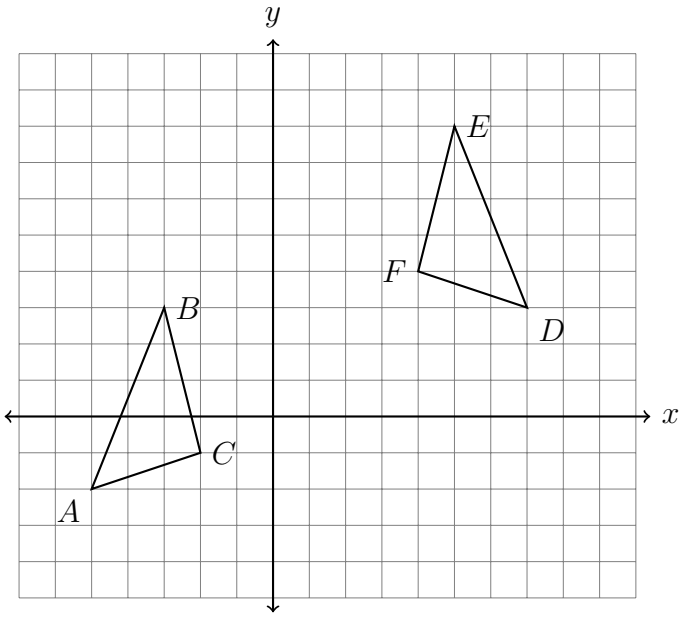
7-11bDN-Transformations

1. Apply a dilation mapping $\triangle ABC \to \triangle A'B'C'$ with a factor of $k = 1.5$ centered at $(3, 4)$. Draw and label the image on the grid and make a table of the coordinates.

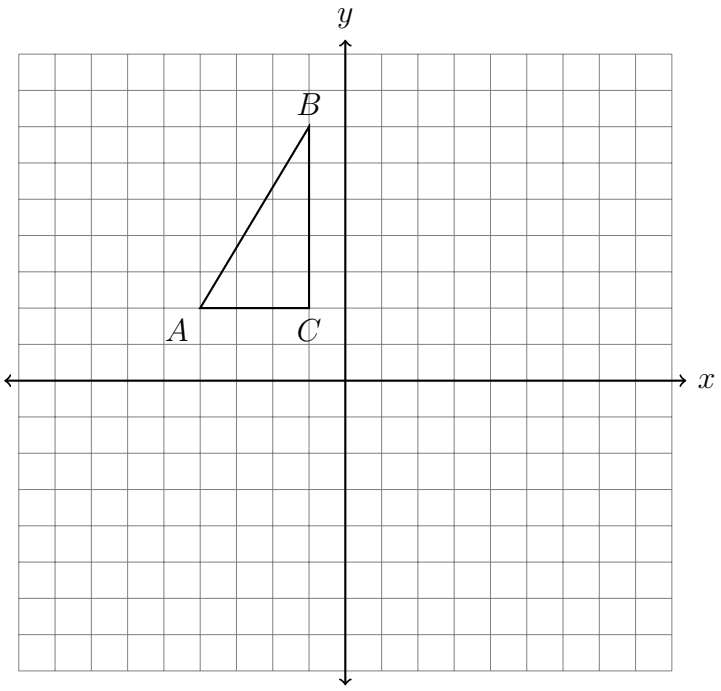


2. Find the image of $P(1, 7)$ after a reflection over the y-axis.

3. What transformation maps $\triangle ABC$ onto $\triangle DEF$, shown below? Fully specify the transformation.



4. Plot two transformations. Rotate $\triangle ABC$ clockwise 90° around the origin, then reflect the result across the x-axis. Make a table of the coordinates and plot and label the images on the axes.



5. A translation maps $A(5, -1) \rightarrow A'(5, 4)$. What is the image of $B(7, -1)$ under the same translation?

6. Reflect $\triangle ABC$ over the y-axis. Plot and label the image on the axes and make a table of the coordinates showing $\triangle ABC \rightarrow \triangle A'B'C'$.