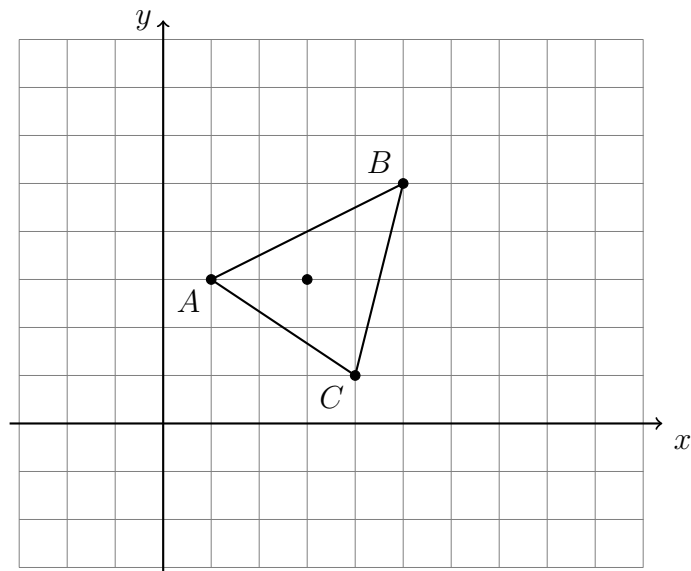
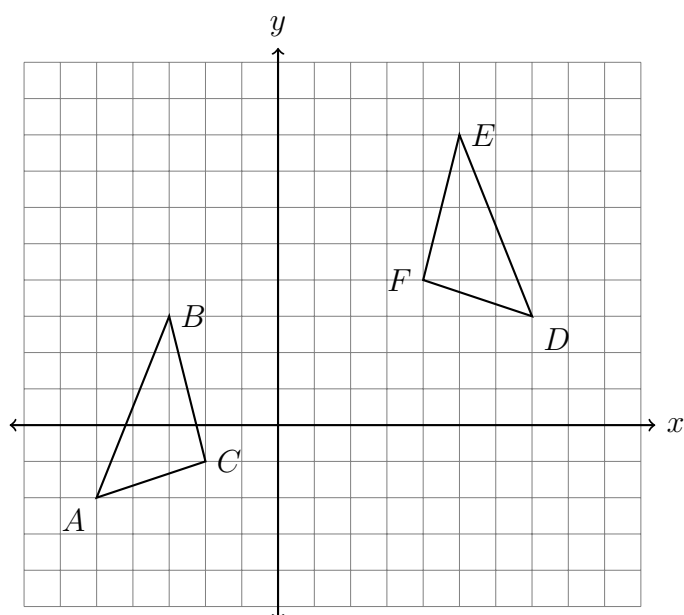


7-10DN-Transformations

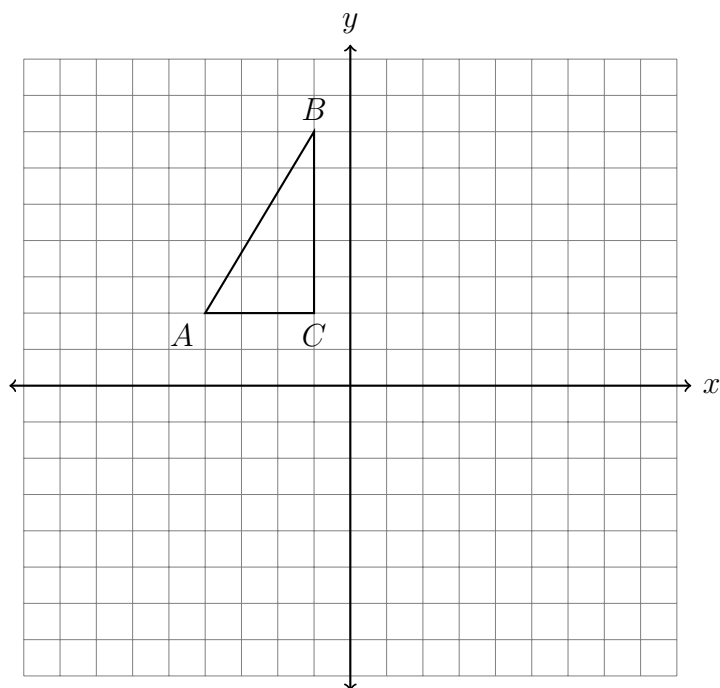
1. Apply a dilation mapping $\triangle ABC \rightarrow \triangle A'B'C'$ with a factor of $k = 2$ centered at $(3, 3)$. Draw and label the image on the grid and make a table of the coordinates.



2. Find the image of $P(3, 5)$ after a reflection over the x -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 $A(-2, 1) \rightarrow A'(5, 1)$. What is the image of $B(3, -1)$ 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 $\triangle ABC \rightarrow \triangle A'B'C'$.

