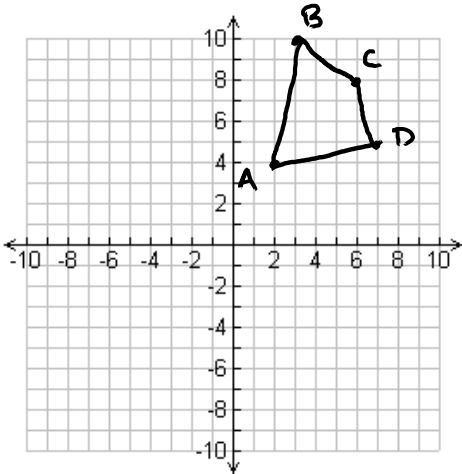
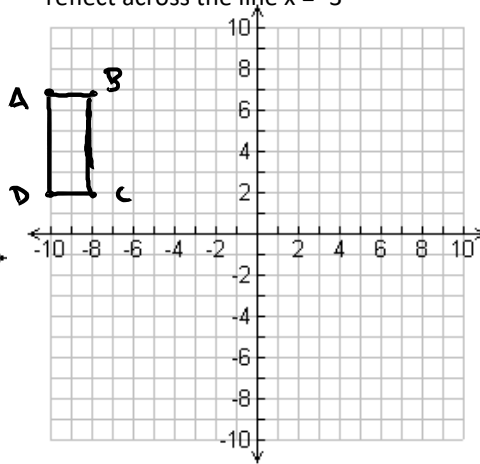


Transformations – Challenge

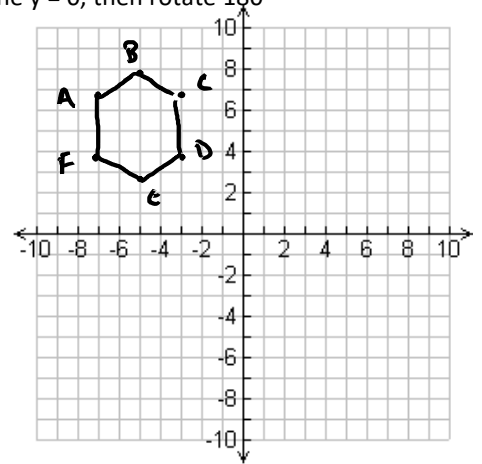
1) Reflect across the line $y = 2$, then translate by $(x, y + 6)$



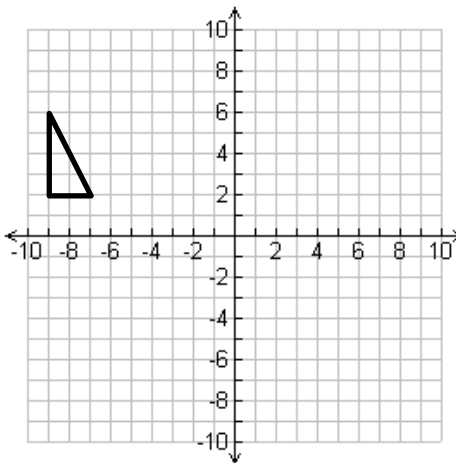
2) Translate by $(x + 8, y - 1)$, then reflect across the line $x = -3$



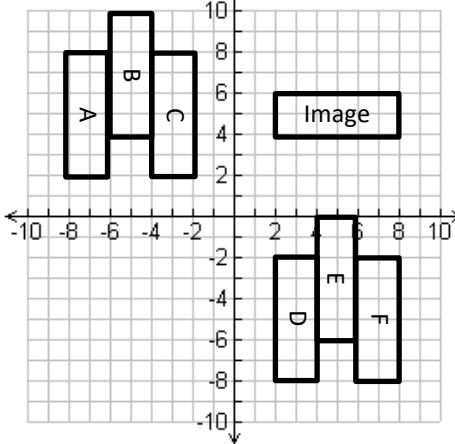
3) Reflect across the line $x = 0$, then across the line $y = 0$, then rotate 180°



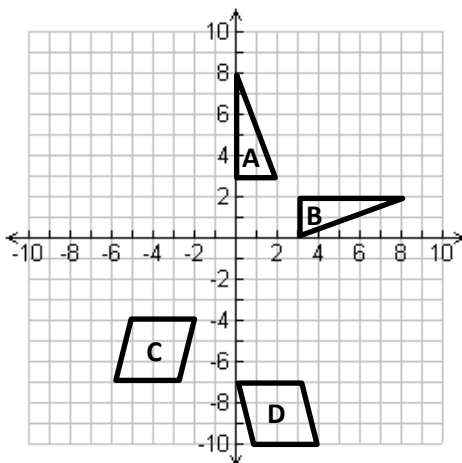
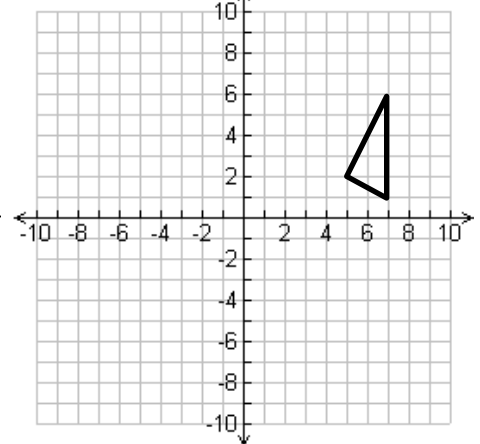
4) A triangle was rotated 270° clockwise, and the image is shown below. Draw the original figure.



5) A rectangle was translated left two units, then rotated 90° clockwise. The image is shown below. Which is the original figure?



6) A triangle was rotated 180° , then translated two units right and one unit up, then reflected across the x -axis. The image is shown. Draw the original figure.



7) Triangle **A** was transformed into triangle **B**. (See below)
Which sequence of transformations was used?

- A. 90° clockwise rotation, then reflect across x -axis
- B. 90° clockwise rotation, then translate 2 units up
- C. 90° counterclockwise rotation, then reflect across the y -axis

8) What steps could I take to transform "C" onto "D"?