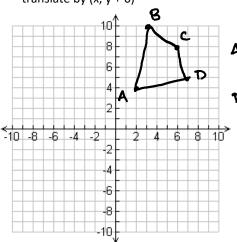
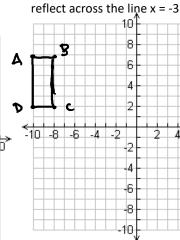
## **Transformations - Challenge**

2) Translate by (x + 8, y - 1), then

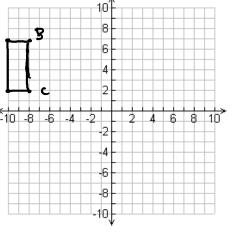
1) Reflect across the line y = 2, then translate by (x, y + 6)



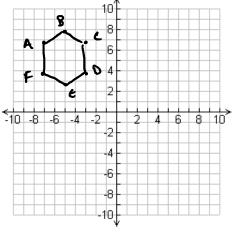
4) A triangle was rotated 270° clockwise, and the image is shown below. Draw the original figure.



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



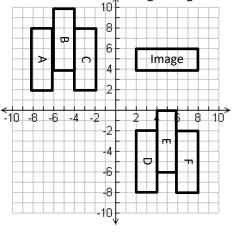
6) A triangle was rotated 180°, then translated two units right and one unit up, then reflected across the x-axis. The image is shown. Draw the original figure.



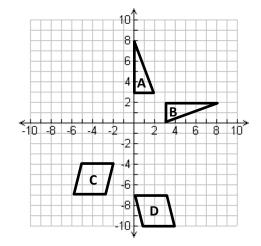
3) Reflect across the line x = 0, then across the

line y = 0, then rotate  $180^{\circ}$ 

10 8 6 2 -10 -8 -6 -4 -2 2 4 6 8 10 2 4 6 -8



10 8 6 -10 -8 -6 -4 -2 6



- 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"?