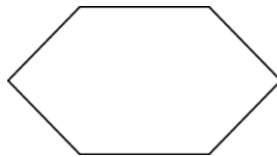
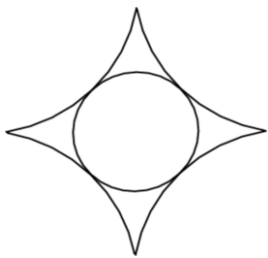


8. Use the figures below to answer parts (a) and (b).



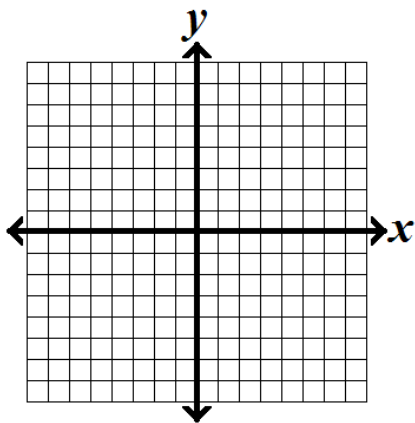
a.) For each figure above, determine the number of **lines of symmetry** and draw them on the figure.

b.) For each figure above, determine whether the figure has **rotational symmetry**. If so, draw a point on the center of rotation and list the smallest degree rotation that maps the figure onto itself.

In exercises 9-11, graph the triangle with the given vertices. Then, perform the composition transformations listed. List the coordinates after each transformation.

9. $A(0, 2), B(1, -3), C(2, 4)$

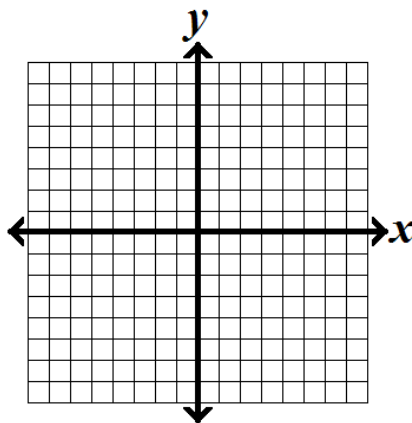
- $(x, y) \rightarrow (x-5, y-3)$
- Reflect over x -axis



$A'(\quad , \quad)$ $A''(\quad , \quad)$
 $B'(\quad , \quad)$ $B''(\quad , \quad)$
 $C'(\quad , \quad)$ $C''(\quad , \quad)$

10. $D(-2, -4), E(6, 2), F(3, -5)$

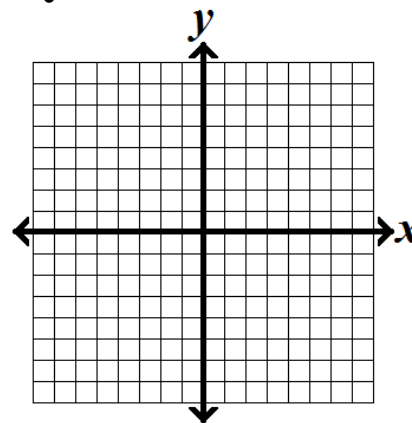
- Reflect over y -axis
- Rotate 180° CW around origin



$D'(\quad , \quad)$ $D''(\quad , \quad)$
 $E'(\quad , \quad)$ $E''(\quad , \quad)$
 $F'(\quad , \quad)$ $F''(\quad , \quad)$

11. $G(4, -1), H(3, 5), J(-1, 1)$

- Reflect over line $y = -2$
- $(x, y) \rightarrow (x, y+4)$



$G'(\quad , \quad)$ $G''(\quad , \quad)$
 $H'(\quad , \quad)$ $H''(\quad , \quad)$
 $J'(\quad , \quad)$ $J''(\quad , \quad)$