

4.1-4.3 Quiz

Graph quadrilateral $ABCD$ with vertices $A(-4, 1)$, $B(-3, 3)$, $C(0, 1)$, and $D(-2, 0)$ and its image after the translation. (Section 4.1)

1. $(x, y) \rightarrow (x + 4, y - 2)$

Graph the polygon with the given vertices and its image after a reflection in the given line. (Section 4.2)

4. $A(-5, 6)$, $B(-7, 8)$, $C(-3, 11)$; x -axis

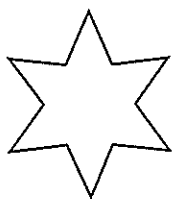
5. $D(-5, -1)$, $E(-2, 1)$, $F(-1, -3)$; $y = x$

6. $J(-1, 4)$, $K(2, 5)$, $L(5, 2)$, $M(4, -1)$; $x = 3$

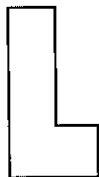
*check answers on Edline!

Determine the number of lines of symmetry for the figure. (Section 4.2)

10.

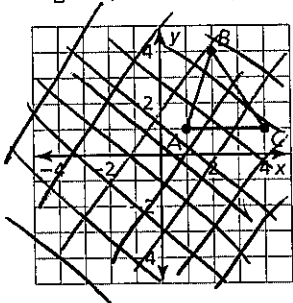


11.

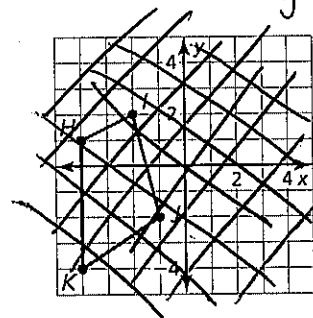
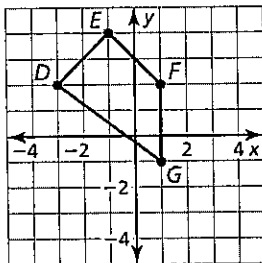


*also do rotational symmetry. if the figure has rotational symmetry, determine the smallest angle of rotational symmetry.

Graph the polygon and its image after a rotation of the given number of degrees about the origin. (Section 4.3)



15. 270°



Graph $\triangle LMN$ with vertices $L(-3, -2)$, $M(-1, 1)$, and $N(2, -3)$ and its image after the composition. (Sections 4.1-4.3)

17. Translation: $(x, y) \rightarrow (x - 4, y + 3)$
Rotation: 180° about the origin

18. Rotation: 90° about the origin
Reflection: in the y -axis

