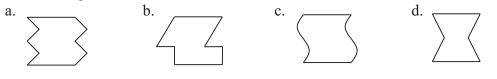


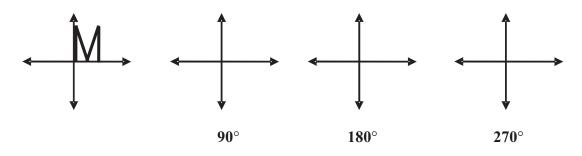
C 2007 BestQuest

**8.** Which figure will *not* tessellate?



9. Which figure has *exactly* two lines of symmetry?
a.
b.
c.
d.
d.

10. Rotate the figure  $90^{\circ}$ ,  $180^{\circ}$ , and  $270^{\circ}$  with the origin as the center of rotation.

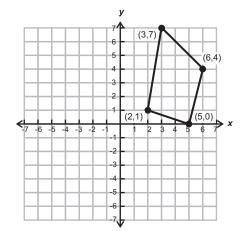


11. A triangle whose vertices are at (-2, 4), (-5, 0), and (-4, -4) is reflected across the *y*-axis. What are the coordinates of the vertices of the reflected triangle?

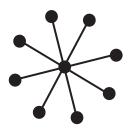
12. Graph the image under a dilation 13. with scale factor 0.5.

v (2,6) (-4,6) 5 4 3 2 1 X 3 4 6 (-4,-1) (2,-1) -2 -3 -5

Rotate the figure  $90^{\circ}$  counterclockwise with the origin as the center of rotation.



14. The figure at right has rotational symmetry. Find the order of rotation and the angles of rotation. Explain how you found your answers.



15. How many squares are in the ninth term of the sequence? Explain how you know.

