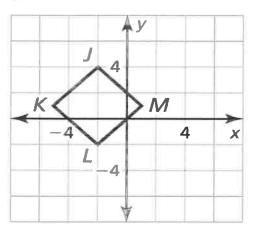
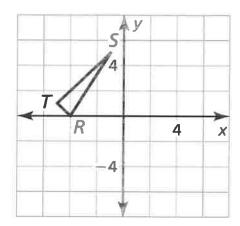
In Exercises 1–3, graph the image of the polygon after a rotation of the given number  $\sigma$ -degrees about the origin.

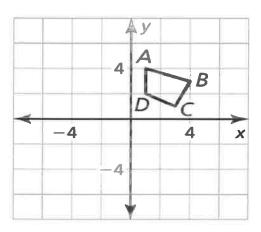
1. 180°



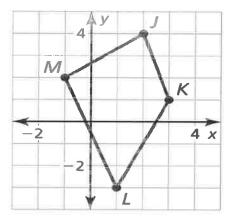
**2**. 90°



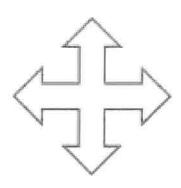
3 2700



60 Aph the polygon after a 270° Adation about the origin.



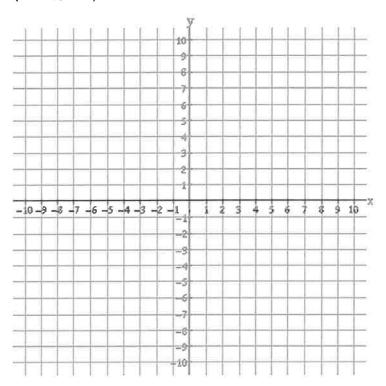
Determine if each figure has rotational symmetry. If so, describe any rotations that map the figure onto itself.



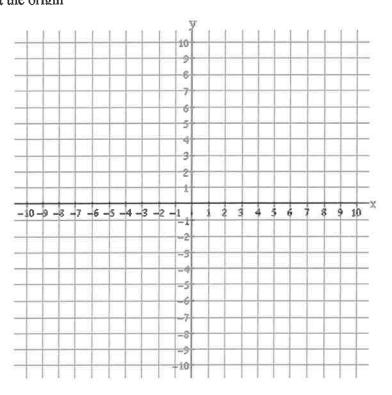
Graph  $\triangle CDE$  with vertices C(-1, -3), D(4, 2), and E(-5, -1) and its image after the composition.

7. Rotation: 180° about the origin

Translation:  $(x, y) \rightarrow (x + 3, y + 1)$ 

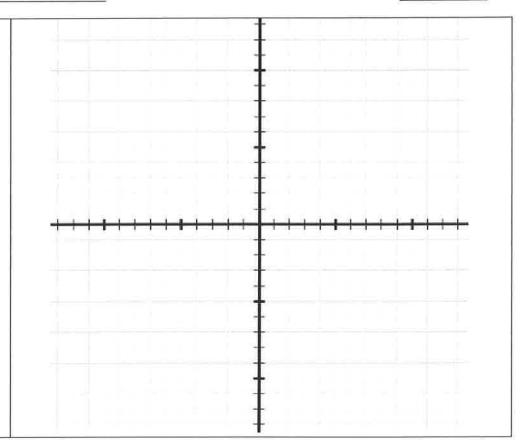


Reflection: in the line x = vRotation: 270° about the origin



Date

A triangle is defined by the following points: A(10, 2), B(4, 8), C(-3, 3). Perform a rotation of -90 degrees about the point (3, 4).



A triangle is defined by the following points: A(-8, 4), B(-10, -2), C(-1, -2). Perform a rotation of 90 degrees about the point (2, 3).

