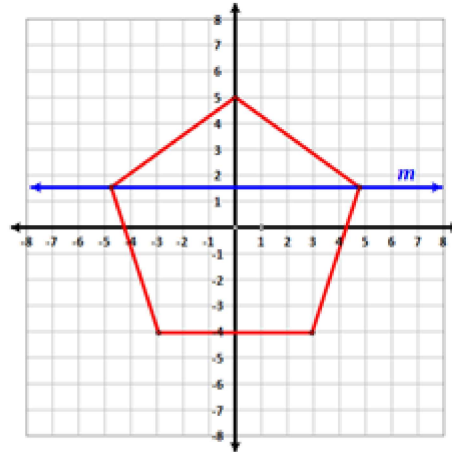


Section-01-05-Symmetries

Multiple Choice

Identify the choice that best completes the statement or answers the question.

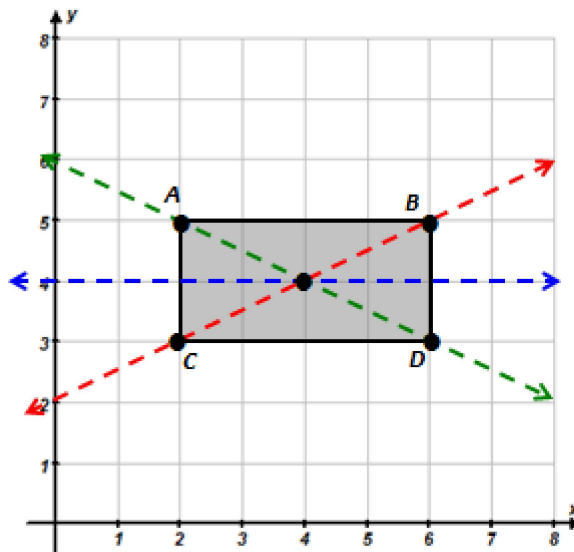
- _____ 1. A regular pentagon is centered about the origin and has a vertex at (0,5).



Which transformation maps the pentagon to itself?

- a. a reflection across line m
- b. a reflection across the x -axis
- c. a clockwise rotation of 100° about the origin
- d. a clockwise rotation of 144° about the origin

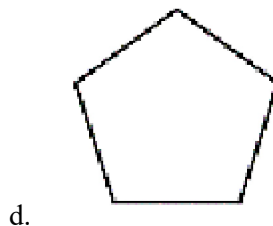
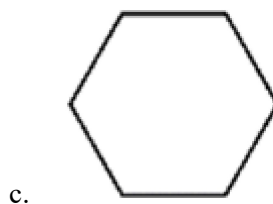
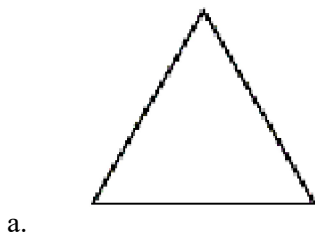
- _____ 2. A rectangle has vertices at (2,5), (6,5), (6,3), and (2, 3).



Which transformation maps the rectangle to itself?

- a. a reflection across the line $y = \frac{1}{2}x + 2$
- b. a reflection across the line $y = -\frac{1}{2}x + 6$
- c. a reflection across the line $y = 4$
- d. a rotation of 90° about the point (4,4)

___ 3. Which figure has exactly two lines of symmetry?



___ 4. Which letter shown below has more than one line of symmetry?



___ 5. Which word shown below appears to have point symmetry (i.e. rotational symmetry of 180°)?

