

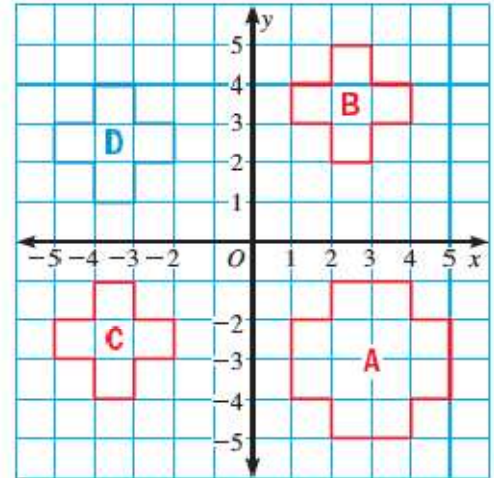
Math Pre-Algebra

Homework: Reflections & Symmetry

Thursday, February 12, 2009

1.) Which figure is a reflected image of figure D?

- (a) Figure A (b) Figure B
 (c) Figure C (d) None



2.) How many lines of symmetry does figure A have?

- (a) 0 (b) 1
 (c) 2 (d) 4

3.) Reflect quadrilateral ABCD over the y-axis. Write the coordinates of each vertex of quadrilateral ABCD and quadrilateral A'B'C'D'.

Quadrilateral ABCD:

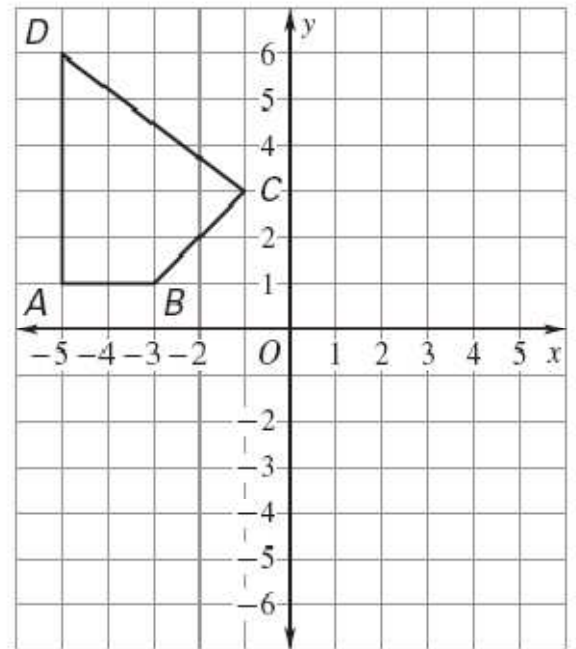
A: _____ B: _____

C: _____ D: _____

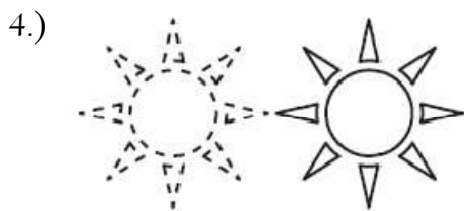
Quadrilateral A'B'C'D':

A': _____ B': _____

C': _____ D': _____

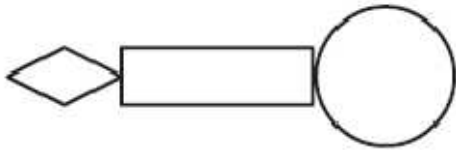


Tell whether the dashed figure is a reflection of the solid figure. Write yes or no.



How many lines of symmetry does each figure have?

6.)

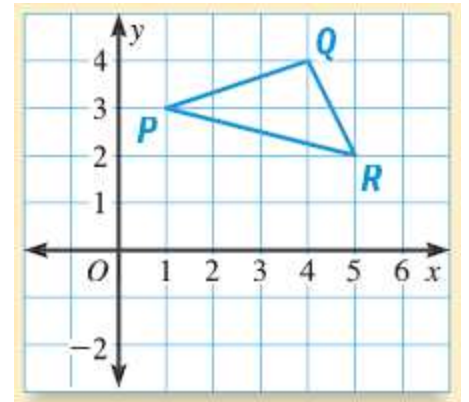


7.)



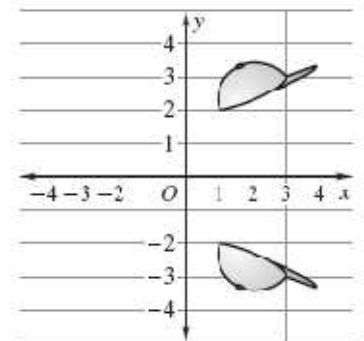
8.) Reflect $\triangle PQR$ over the x -axis. What are the coordinates of the vertices of $\triangle P'Q'R'$?

- (a) $(-1, 3), (-4, 4), (-5, 2)$
- (b) $(1, 3), (4, 4), (5, 2)$
- (c) $(1, -3), (4, -4), (5, -2)$
- (d) $(-1, -3), (-4, -4), (-5, -2)$



9.) What is the line of reflection in the reflection shown on the right?

Line of reflection: _____



10.) When a figure is reflected, a _____ image of the figure is created.

- (a) smaller
- (b) larger
- (c) congruent

Using the image on the right, describe the line of reflection used in the transformation.

11.) **b** to **d** Line of reflection: _____

12.) **p** to **b** Line of reflection: _____

