

Warm-Up

May 8, 2018

Name: _____

Section 7.5/7.6 Check

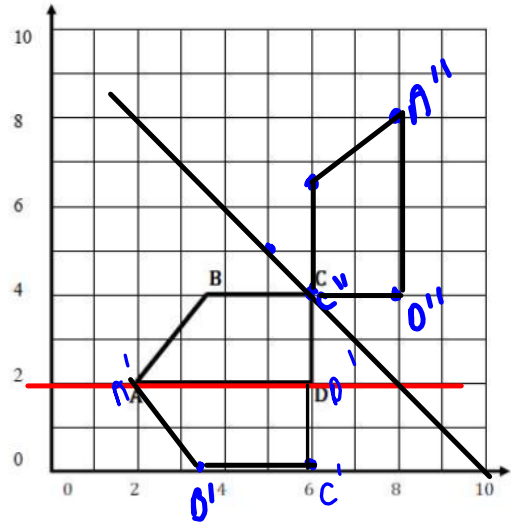
1. Write the coordinates of the new shape after a reflection in the horizontal line through 2 on the y -axis.

Point	Image
A (2, 2)	A' (2, 2)
B (3, 5, 4)	B' (3, 5, 0)
C (6, 4)	C' (6, 0)
D (6, 2)	D' (2, 2)

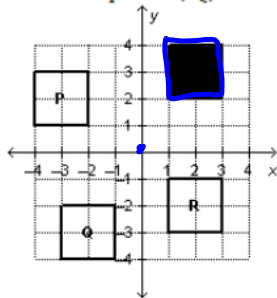
2. Reflect ABCD through the line with the coordinates

(6,4) and (5,5). List the coordinate for B''

(6, 6.5)



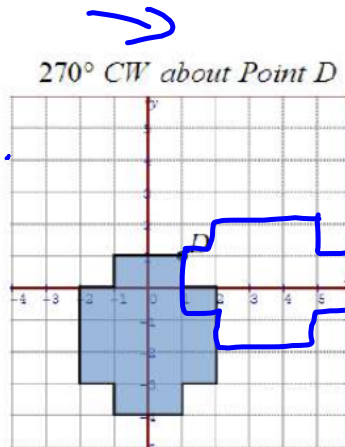
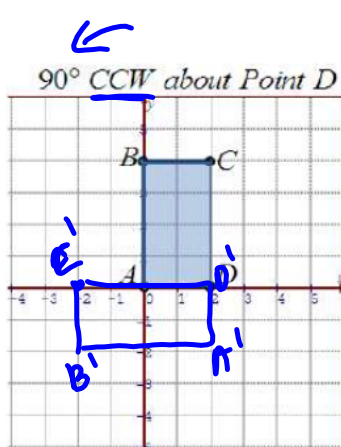
3. i. Which of squares P, Q, and R are related to the shaded square by rotational symmetry about the origin?



- a. Squares P and R
- b. Squares P, Q, and R

- c. Squares Q and R
- d. Squares P and Q

4.



There are three types of transformations:

1. reflections [symmetry]
 - Reflect through x-axis [vertical]
 - Reflect through y-axis [horizontal]
 - *oblique two coordinates
2. rotations
 - order of rotation $\frac{\# \text{ of times the object overlaps in } 360^\circ}{\text{order of rotation}}$
 - angle of rotation $\frac{360^\circ}{\text{order of rotation}}$
3. translations [slide]
 - Left 3 up 2 [L3U2]
 - right 4 down 2 [R4 D2]

On grid paper plot the following points:

A (1, 3) B (3,1) and C (5,5)

Do the following Transformation

1. A translation [slide] 2 units right and 2 units down of ABC.
2. A rotation of ABC 180 about vertex C
3. A line of reflection through 6 on y axis

