Name _____ Date _____ Class _____

LESSON 1-3

Representing and Describing Transformations

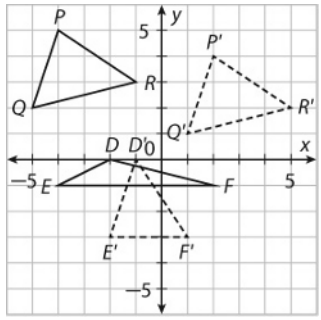
Practice and Problem Solving: A/B

1. Use coordinate notation to describe the transformation of $\triangle PQR$.

$P(-4, 5) \rightarrow P'(_____, _____)$

$Q(-5, 2) \rightarrow Q'(_____, _____)$

$R(-1, 3) \rightarrow R'(_____, _____)$



2. Describe the algebraic rule for $\triangle DEF$.

$(x, y) \rightarrow (_____, _____)$

Name the transformation described by the given rule.

3. $(x, y) \rightarrow (-x, y)$

_____

4. $(6, 2) \rightarrow (-6, -2)$

_____

5. $(5, 8) \rightarrow (8, -5)$

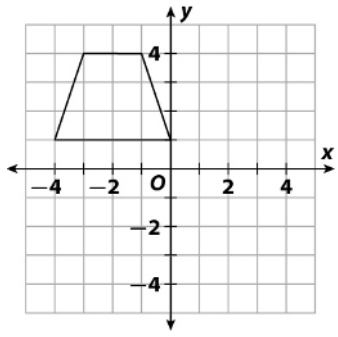
_____

6. $(x, y) \rightarrow (x + 9, y + 2)$

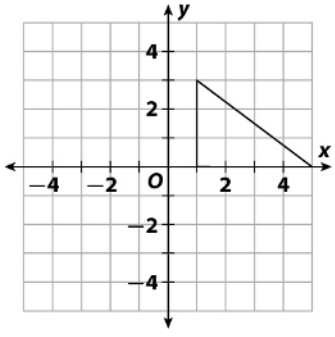
_____

Draw the image of each figure under the given transformation.

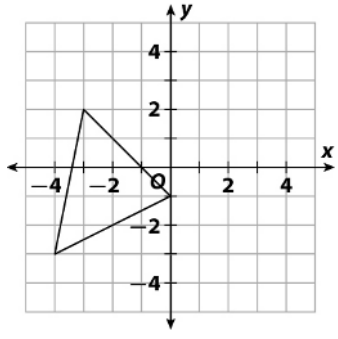
7. $(x, y) \rightarrow (x + 4, y - 5)$



8. A 180° rotation around the origin



9. A reflection across the *y*-axis



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