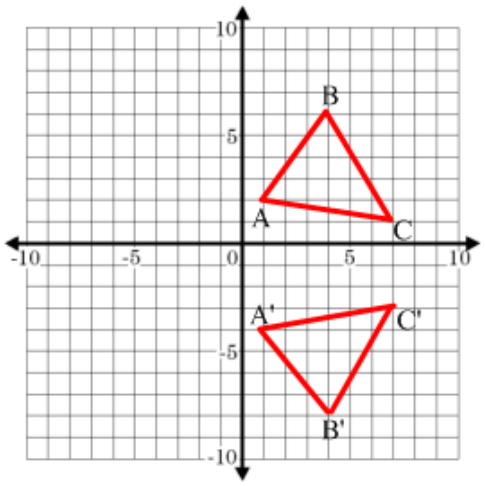
Quiz 1.4 Study Guide

1. Define the reflection below, be specific and use the proper notation.



1._____

2. Write an equation for the line of reflection that maps *A*(8, -3) onto *A'*(-4, -3). 2._____

Question 3-8. Find the coordinates for the image of point *P*(2, -5) under the following transformation.

3. r_{x-axis} 3. _____

4. $r_{x=-2}$ 4. _____

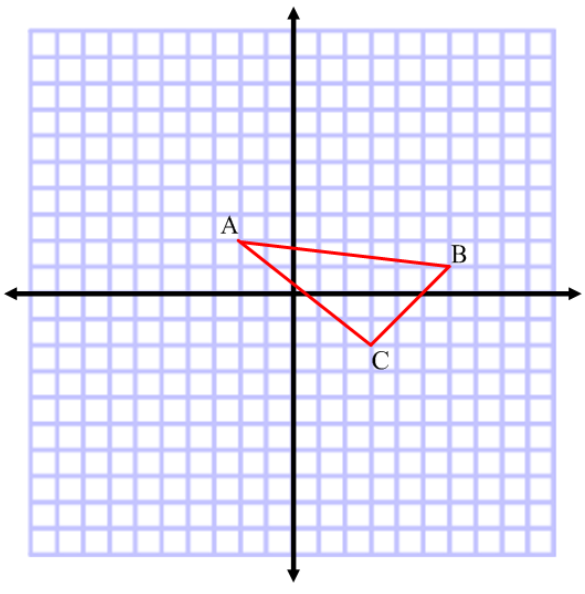
5. $r_{y=2}$ 5. _____

6. $r_{y=x}$ 6. _____

7. r_{y-axis} 7. _____

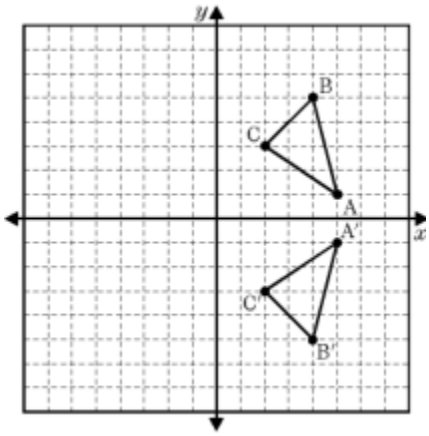
8. $r_{y=-x}$ 8._____

9. Graph and label triangle *A'B'C'*, the image of triangle *ABC*, after a reflection in the *y*-axis.



A':_____ *B'*:_____ *C'*:_____

10. What is the mapping for the reflection where ΔABC maps to $\Delta A'B'C'$?



a) $(x, y) \rightarrow (y, x)$ b) $(x, y) \rightarrow (x, -y)$ c) $(x, y) \rightarrow (-x, y)$ d) $(x, y) \rightarrow (-y, -x)$

Questions 11-12. Determine the number of lines of symmetry for the figures below.

11.

12.

13. Draw all the of lines of symmetry for the regular pentagon shown below.

14. Graph the polygons image after a reflection in the line $y = x$.