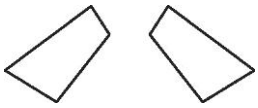
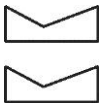
CC Geometry HW#_____ Name_____

Worksheet 9-1 and Review

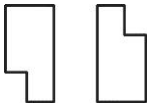
Date_____Per_____Col_____

Tell whether each transformation appears to be a reflection.

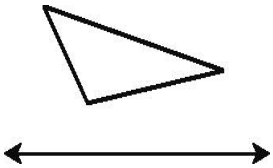
1.  _____

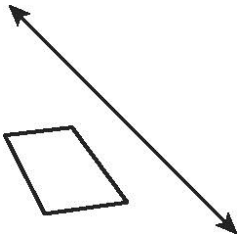
2.  _____

3.  _____

4.  _____

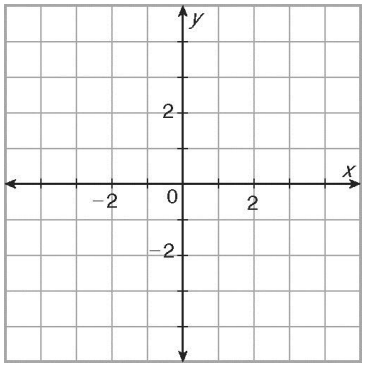
Draw the reflection of each figure across the line. Use a ruler and measure as accurately as possible.

5. 

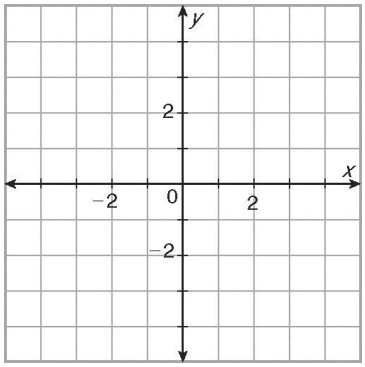
6. 

Reflect the figure with the given vertices across the given line. List coordinates of image points. Use a ruler!

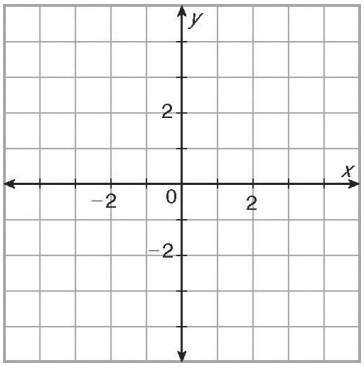
7. $A(4, 4)$, $B(3, -1)$, $C(0, -2)$, $D(-3, 2)$; y-axis



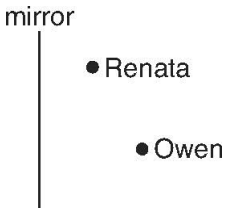
8. $D(-4, -1)$, $E(-2, 3)$, $F(-1, 1)$; $y = x$



9. $P(1, 3)$, $Q(-2, 3)$, $R(-2, 1)$, $S(-1, 0)$; x-axis



10. Renata and Owen stand in front of a mirror at the positions shown in the figure. Owen looks into the mirror so he can see Renata in the mirror. Plot the reflection of Renata's position and label it *R′*. Label with an *X* the point on the mirror where Owen should look in order to see Renata.



Give the image of each point after a reflection across the given line.

11. (5, -2), *x*-axis _____ 12. (3, -4), *y*-axis _____ 13. (-1, 8), $y = x$ _____

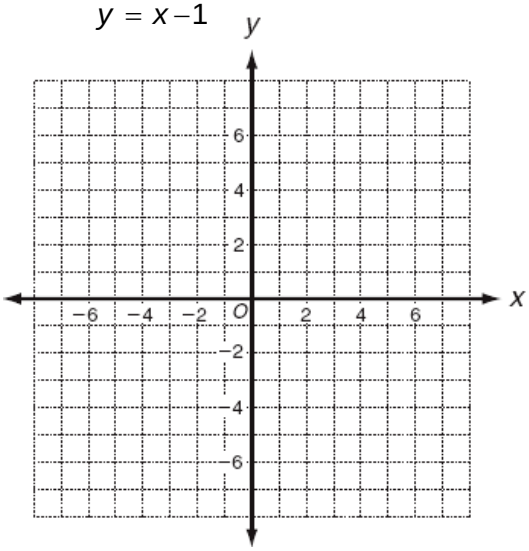
REVIEW

14. Solve the system by graphing.

List the solutions (,) (,)

$x^2 + (y-2)^2 = 9$

$y = x - 1$



15. Use completing the square to rewrite $x^2 - 12x + y^2 + 8y = -4$ in circle form.