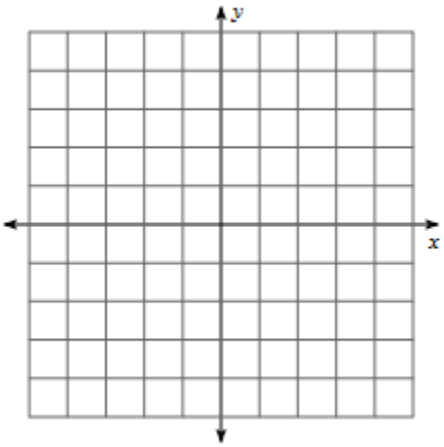
Name:_____ Period:_____

TRANSFORMATIONS QUIZ #1 REVIEW W/S

1. Graph ΔABC with vertices A(2, 4), B(0, -2), and C (-3, 1). Graph and find the coordinates of ΔA'B'C' using the translation rule (x, y) → (x + 2, y – 1)



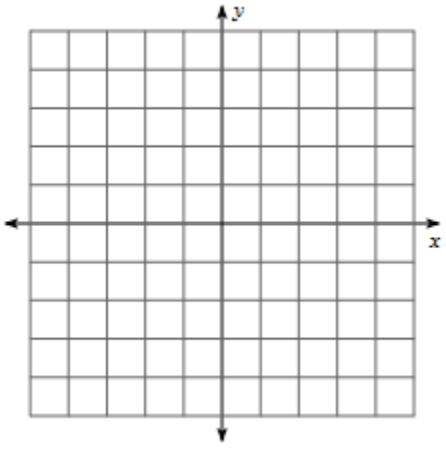
A' _____

B'_____

C'_____

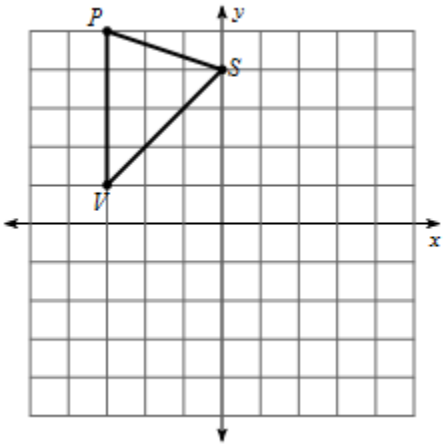
2. Point Y(-2, 3) is translated six units to the right and nine units down, what are the coordinates of Point Y'?

3. Quadrilateral ABCD has vertices A(-1, 4), B(-3, 2), C(-2, -1), and D(1, -2). Use the translation rule (x, y) → (x + 2, y – 3) to graph quadrilateral A'B'C'D'. (Be sure to label each of the new points with the correct letter)



4-7: Use the graph below.

ΔPSV is translated one unit left and three units down.



4. Graph ΔP'S'V' using the given translation.

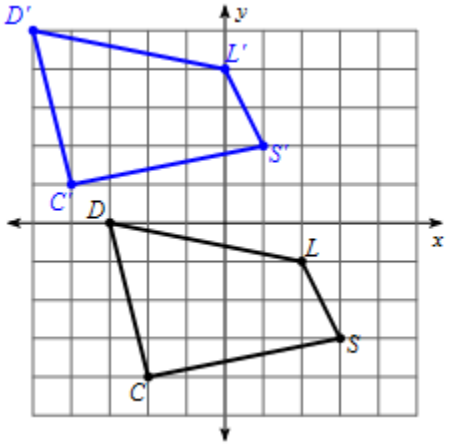
5. Write a rule for the given translation.

(x, y) → (,)

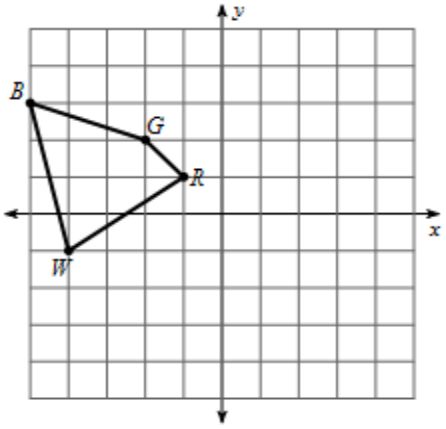
6. Find the coordinates for point P. (,)

7. Find the coordinates of point P'. (,)

8. Use arrow notation to write a rule that describes the translation.



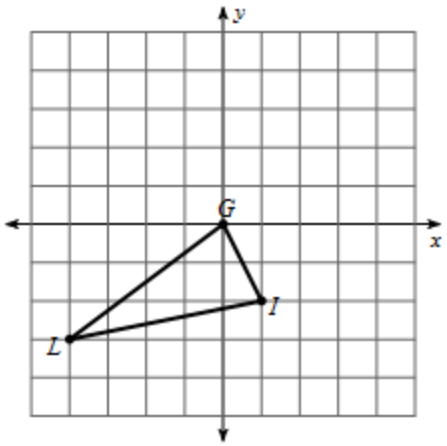
9: Quadrilateral BGRW is reflected over the x – axis. Draw and label the image of Quadrilateral B'G'R'W'.



9. What are the coordinates of W'?

W' (,)

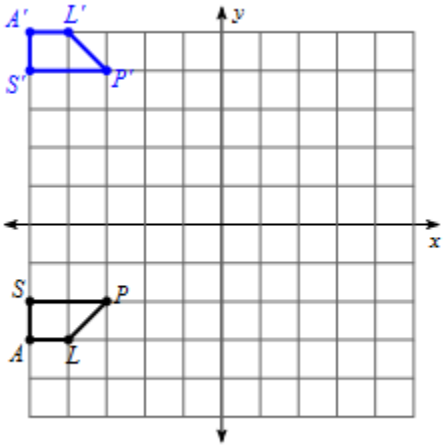
10: ΔGIL is reflected over the y – axis. Draw and label the image of ΔG'I'L'.



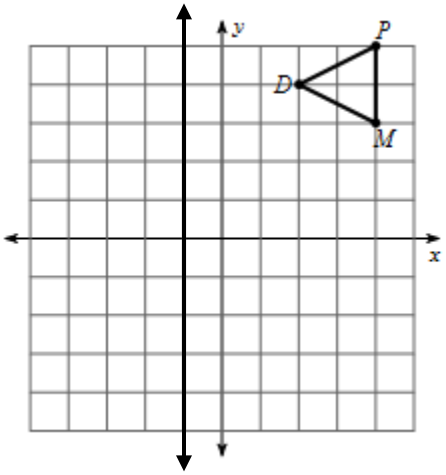
10. What are the coordinates of I'?

I' (_____, _____)

11: Draw the line of reflection that caused SALP to reflect onto S'A'L'P'.



12: ΔDMP is reflected over the given line. Draw and label the image of ΔD'M'P'.



12. What are the coordinates of P'?

P' (_____, _____)

13-16: Use the graph below

13. What are the coordinates of A (3, -2) under a 90° **counterclockwise** rotation about the origin?

A’(,)

14. What are the coordinates of B (-4, -5) under a 180° **counterclockwise** rotation about the origin?

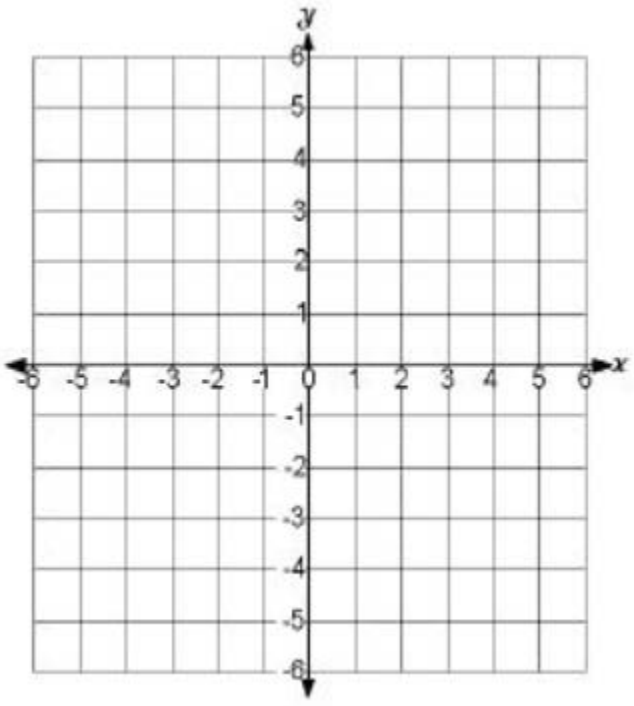
B’(,)

15. What are the coordinates of C (6, 1) under a 90° **clockwise** rotation about the origin?

C’(,)

16. What are the coordinates of D (-4, 1) under a 270° **counterclockwise** rotation about the origin?

D’ (,)



17. What is a reflection?
18. What is a translation?
19. What is a rotation?
20. What is a transformation?