Name _____

Date _____

edHelper.com

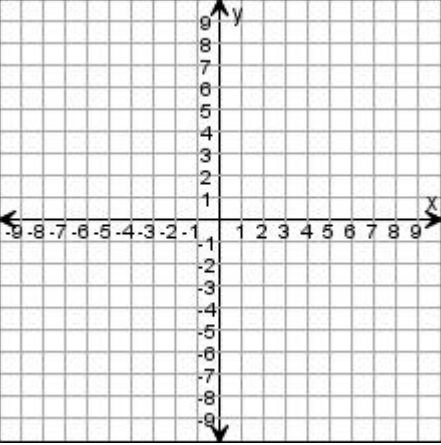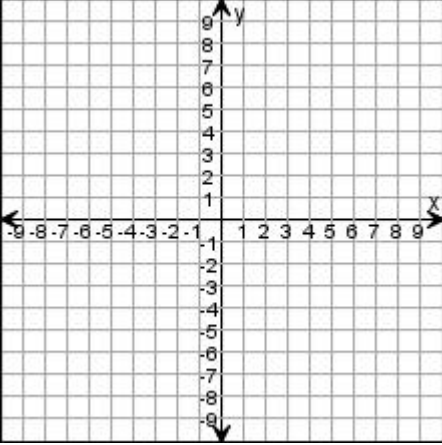# Coordinate Plane and Transformations

Enter answers in text boxes.

Find each ordered pair. Write the letter for the point named by the ordered pair.

1.

(3, 2)_____

(-6, 1)_____

(1, 4)_____

(-3, -3)_____

(-3, 0)_____

2.

(3, 1)_____

(5, -6)_____

(-2, 3)_____

(0, 0)_____

(0, 2)_____

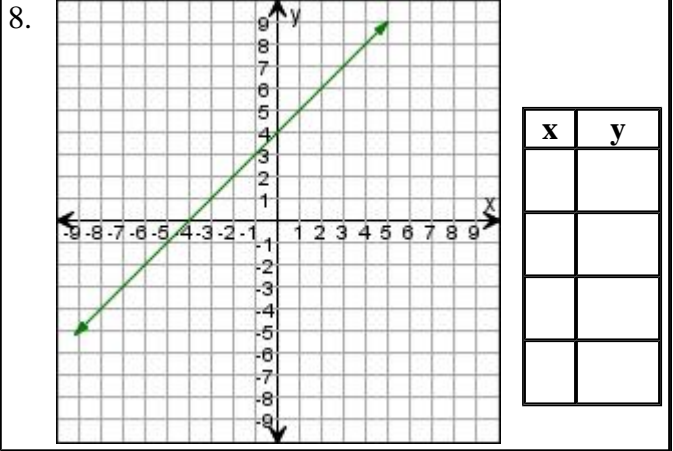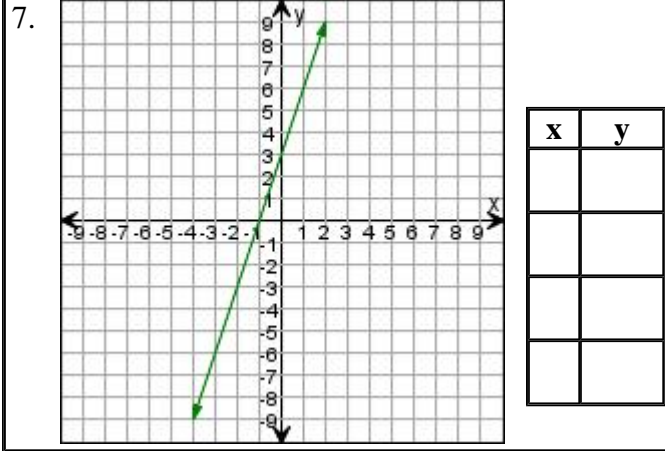**Draw the ordered points on the grid. Label each point.**

3.

L (3, 0)
P (4, -5)
T (-4, 1)
E (-2, -1)
R (-6, 1)
B (7, -7)

4.

F (2, 7)
P (0, 0)
X (7, 5)
S (-7, 3)
G (-2, 2)
A (-2, 0)

Complete the function table and then graph the function.

5.

$y = 3x - 1$

x	y
0	
1	
2	
3	

6.

$y = 6 + 4x$

x	y
-3	
-2	
-1	
0	

Make a function table for the line. Write an equation for this function.
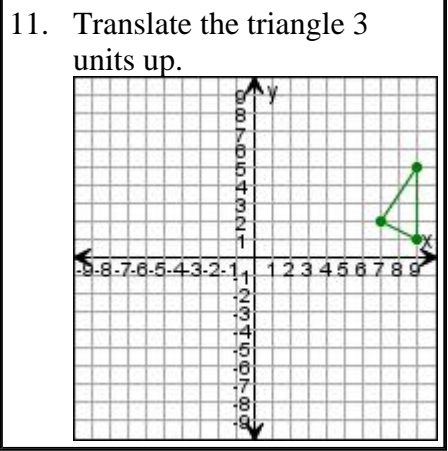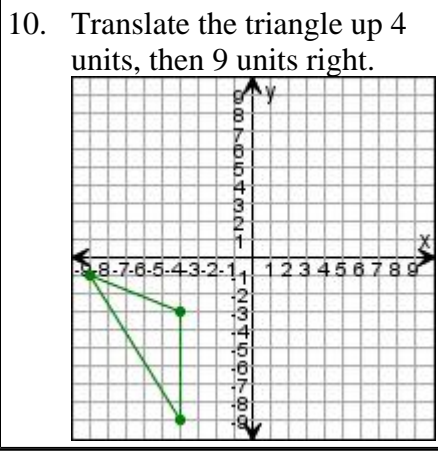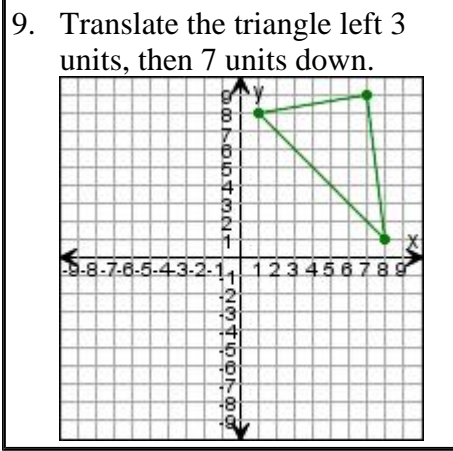
7.

x	y

8.

x	y

Draw the triangle after the transformations. State the new vertices.

9. Translate the triangle left 3 units, then 7 units down.

10. Translate the triangle up 4 units, then 9 units right.

11. Translate the triangle 3 units up.

Draw the triangle after the transformations. State the new vertices.

12. Reflect the triangle over the y-axis.

13. Reflect the triangle over the y-axis.

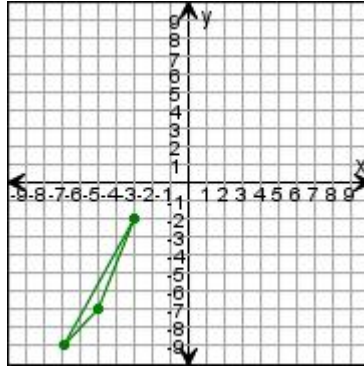14. Reflect the triangle over the x-axis.
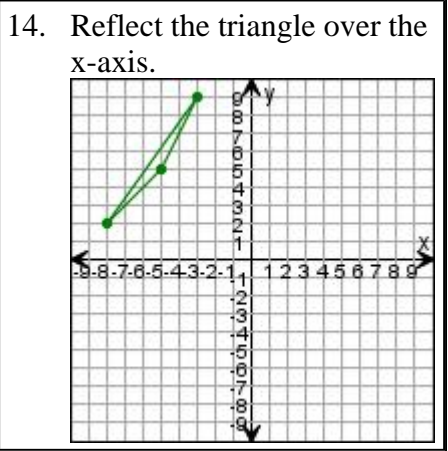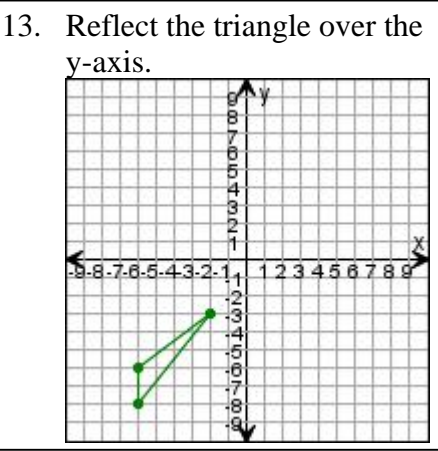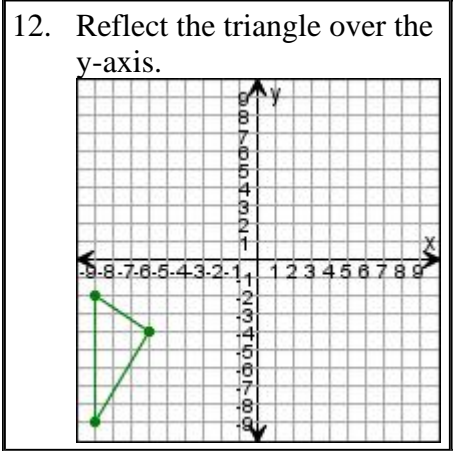
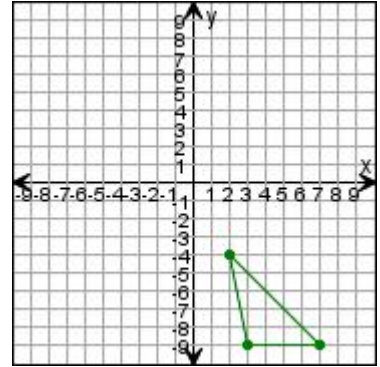**Draw the triangle after the transformations. State the new vertices.**

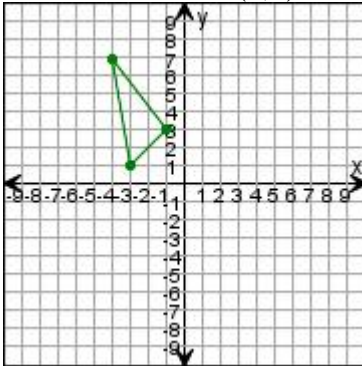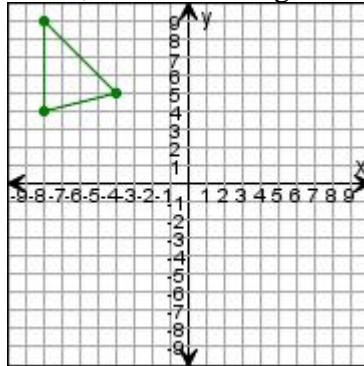| 15. Rotate the triangle 270° clockwise around (0,0).	16. Rotate the triangle 180° clockwise around (0,0).	17. Rotate the triangle 180° clockwise around (0,0).
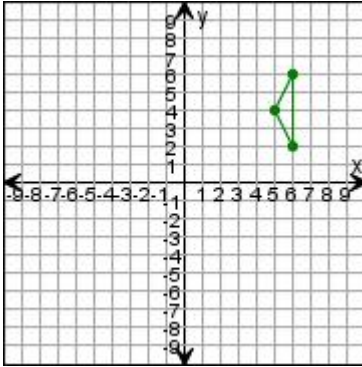
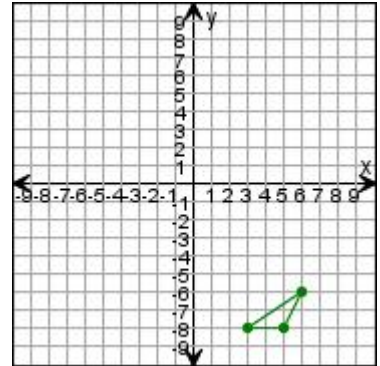**Draw the triangle after the transformations. State the new vertices.**

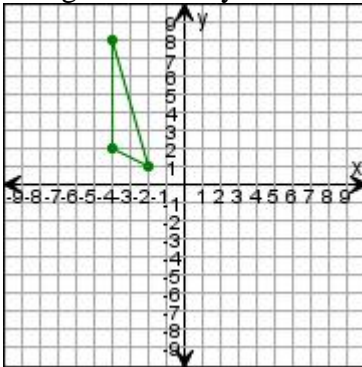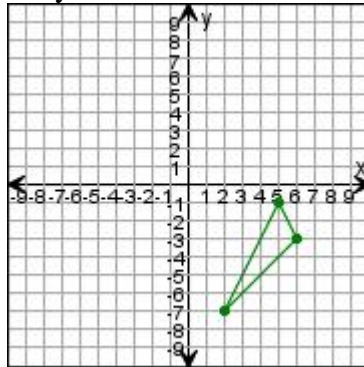| 18. Rotate the triangle 270° clockwise around (0,0).	19. Translate the triangle down 1 unit, then 8 units right.	20. Reflect the triangle over the x-axis.

Draw the triangle after the transformations. State the new vertices.

21. Translate the triangle left 5 units, then 4 units down. Then reflect the new triangle over the y-axis.	22. Translate the triangle left 1 unit, then 4 units up. Then reflect the new triangle over the y-axis.	23. Translate the triangle left 4 units, then 1 unit up. Then rotate the new triangle 180° clockwise around (0,0).