Geometry- Mrs. Tilus   Name: _____
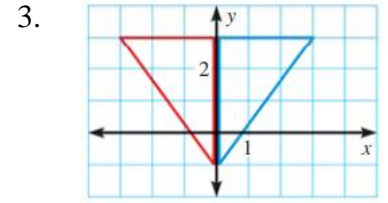
Unit 4- Worksheet #8: Transformations
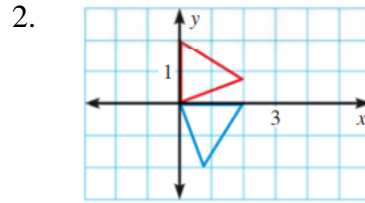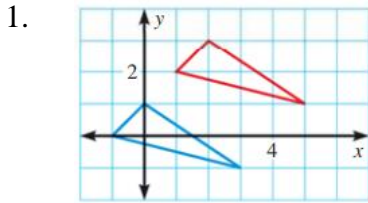
Name the type of transformation

1.

2.

3.

Use coordinate notation to describe the translation.
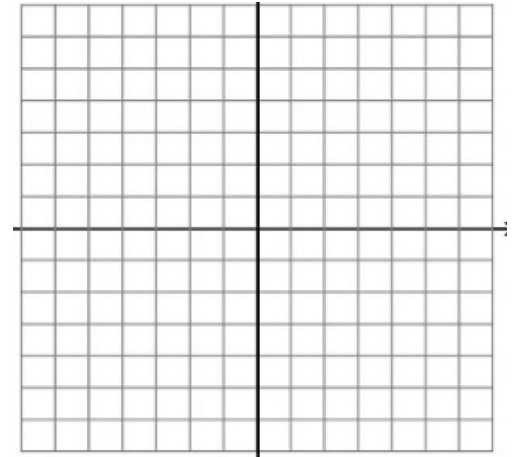
4. 3 units to the right, 5 units down   5. 7 units to the left, 2 units down
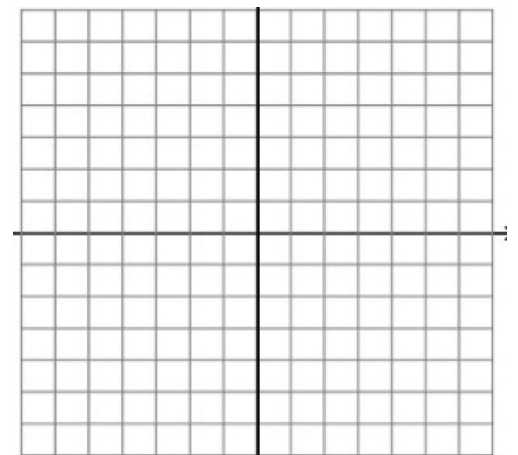
6. 4 units to the left, 6 units up   7. 5 units to the right, 1 unit up

8. Figure ABCD has the vertices $A(-2, 3), B(1, 7), C(6, 2))$ and $D(-1, -2)$. Graph ABCD and its image after the transformation $(x, y) \rightarrow (x - 2, y - 4)$.
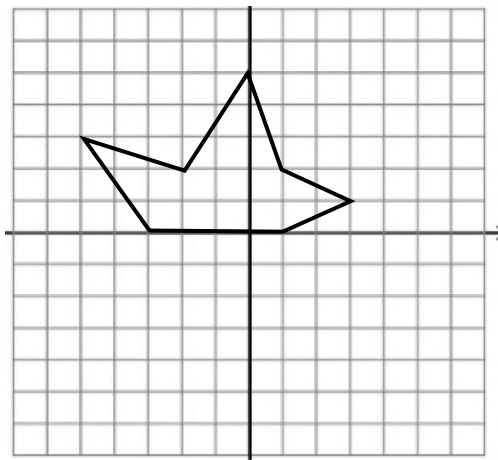

9. Figure ABCD has the vertices $A(3, -1), B(6, -2), C(5, 3))$ and $D(0, 4)$. Graph ABCD and its image after the transformation $(x, y) \rightarrow (x - 3, y + 2)$.
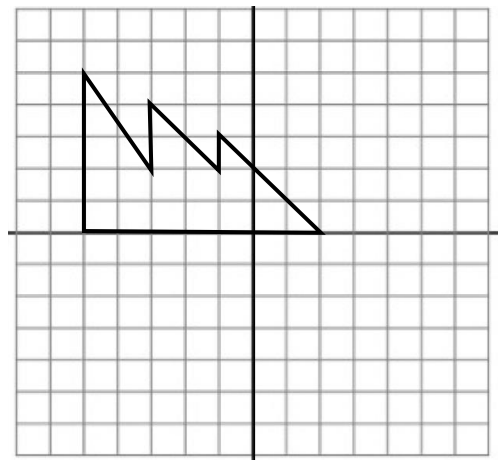
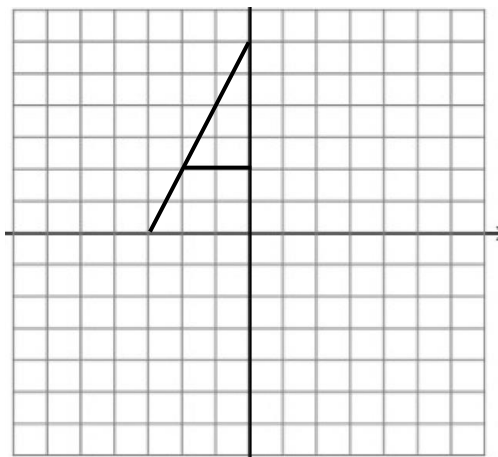Use a reflection in the *x*-axis to draw the other half of the figure.
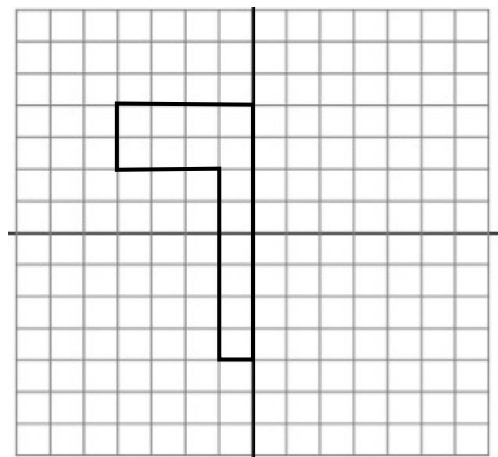
10.

11.

Use a reflection in the *y*-axis to draw the other half of the figure.

12.

13.

Complete the statement using the description of the translation. In the description, points $(2, 0)$ and $(3, 4)$ are two vertices of a triangle.

14. If $(2, 0)$ translates to $(4, 1)$, then $(3, 4)$ translates to _____

15. If $(2, 0)$ translates to $(-2, -1)$, then $(3, 4)$ translates to _____