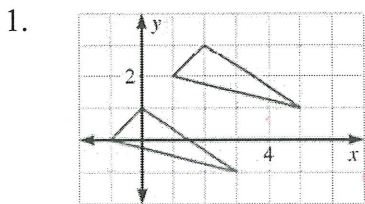
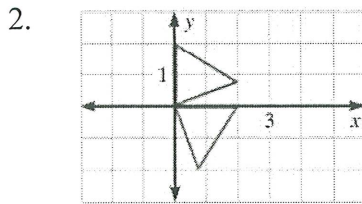


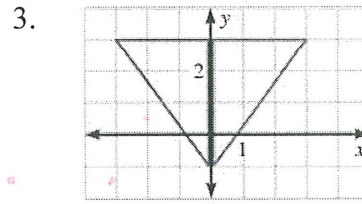
Name the type of transformation



Translation



Rotation



Reflection

Use coordinate notation to describe the translation.

4. 3 units to the right, 5 units down

$$(x, y) \Rightarrow (x + 3, y - 5)$$

5. 7 units to the left, 2 units down

$$(x, y) \Rightarrow (x - 7, y - 2)$$

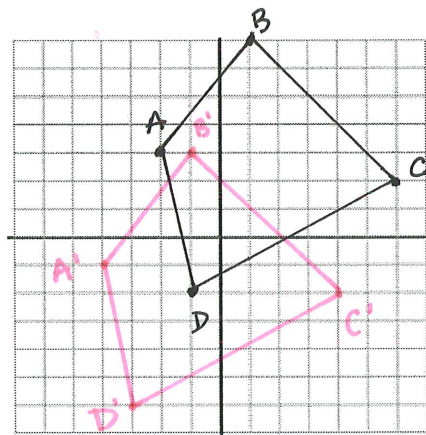
6. 4 units to the left, 6 units up

$$(x, y) \Rightarrow (x - 4, y + 6)$$

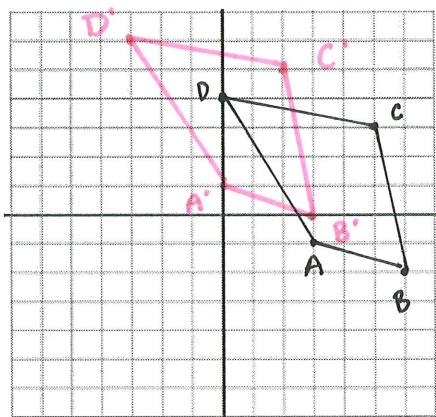
7. 5 units to the right, 1 unit up

$$(x, y) \Rightarrow (x + 5, y + 1)$$

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 $(x, y) \rightarrow (x - 2, y - 4)$.

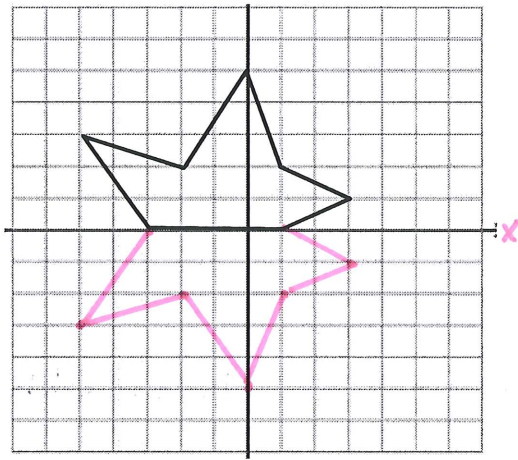


9. Figure ABCD has the vertices $A(3, -1)$, $B(6, -2)$, $C(5, 3)$ and $D(0, 4)$. Graph ABCD and its image after the transformation $(x, y) \rightarrow (x - 3, y + 2)$.

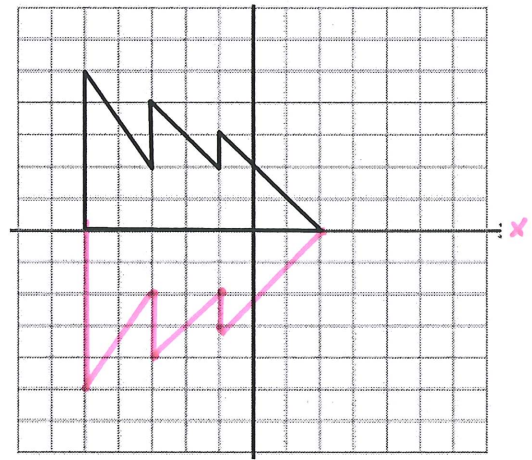


Use a reflection in the x -axis to draw the other half of the figure.

10.

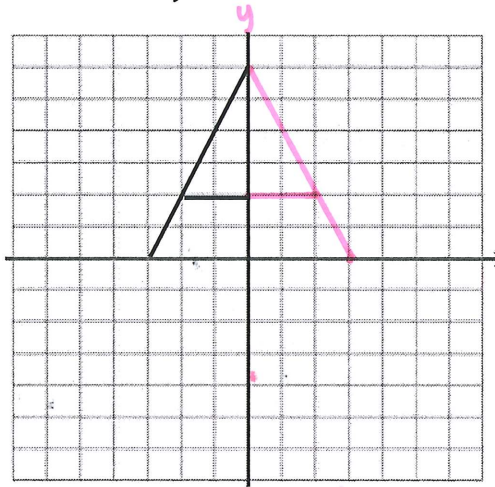


11.

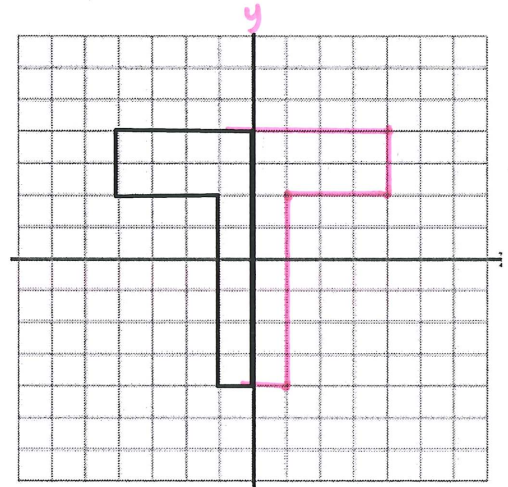


Use a reflection in the y -axis to draw the other half of the figure.

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 $(5, 5)$

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