

Translations (Part 1)

Name: _____ Date: _____

Slide every vertex the same direction and distance. Draw the image and label it with prime marks (A' , B' , ...).

1. Translate the figure 6 units left and 5 units down.

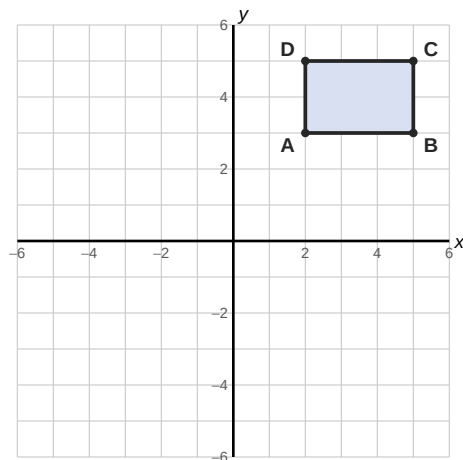


Image coordinates:

A' (,)

B' (,)

C' (,)

D' (,)

Original:

A (2, 3)

B (5, 3)

C (5, 5)

D (2, 5)

2. Translate using the rule $(x, y) \rightarrow (x - 2, y - 2)$.

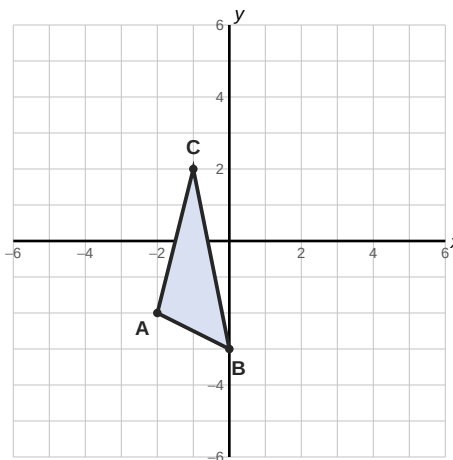


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (-2, -2)

B (0, -3)

C (-1, 2)

3. Translate the figure 3 units left and 2 units up.

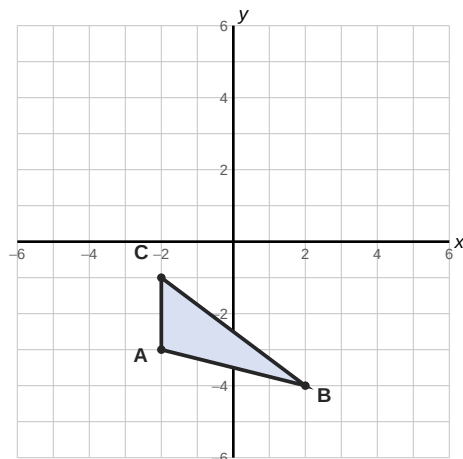


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (-2, -3)

B (2, -4)

C (-2, -1)

4. Translate using the rule $(x, y) \rightarrow (x - 5, y - 6)$.

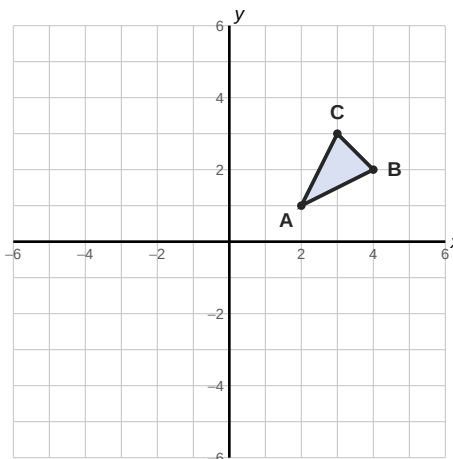


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (2, 1)

B (4, 2)

C (3, 3)

5. Translate the figure 1 unit left and 4 units down.

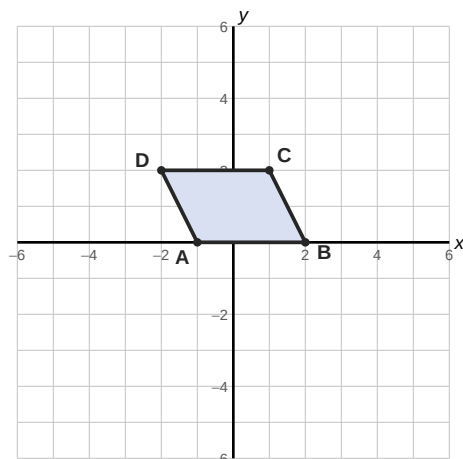


Image coordinates:

A' (,)

B' (,)

C' (,)

D' (,)

Original:

A (-1, 0)

B (2, 0)

C (1, 2)

D (-2, 2)

6. Translate using the rule $(x, y) \rightarrow (x - 3, y + 1)$.

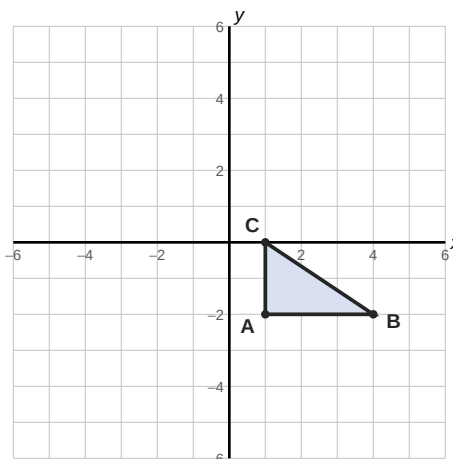


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (1, -2)

B (4, -2)

C (1, 0)

Translations (Part 2)

Name: _____ Date: _____

Slide every vertex the same direction and distance. Draw the image and label it with prime marks (A' , B' , ...).

7. Translate the figure 2 units left and 6 units up.

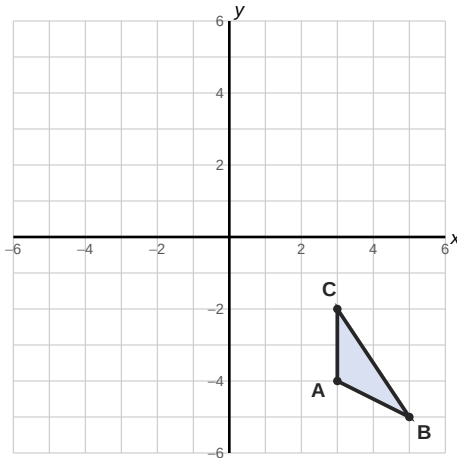


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (3, -4)

B (5, -5)

C (3, -2)

8. Translate using the rule $(x, y) \rightarrow (x + 1, y - 3)$.

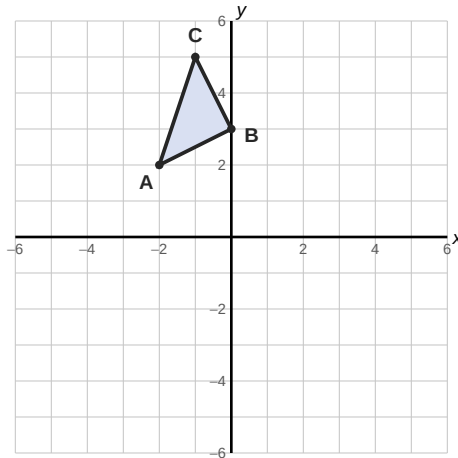


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (-2, 2)

B (0, 3)

C (-1, 5)

9. Translate the figure 4 units left.

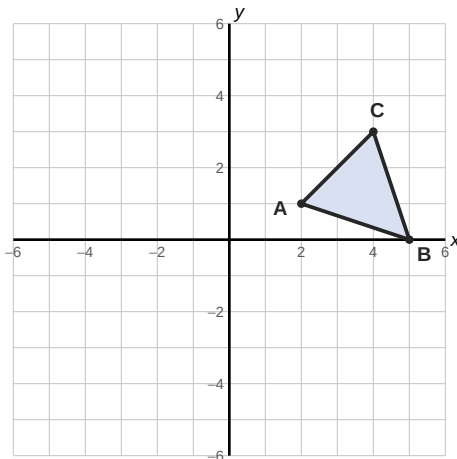


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (2, 1)

B (5, 0)

C (4, 3)

10. Translate using the rule $(x, y) \rightarrow (x + 1, y - 2)$.

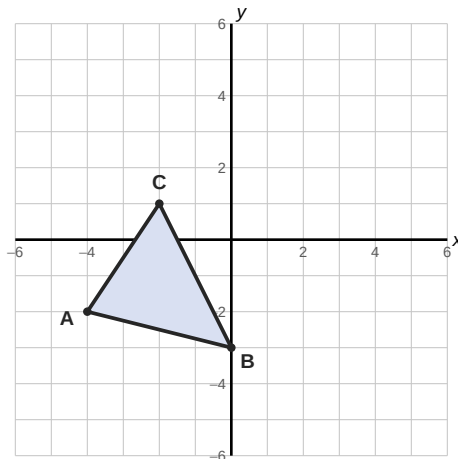


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (-4, -2)

B (0, -3)

C (-2, 1)

11. Translate the figure 5 units right and 5 units up.

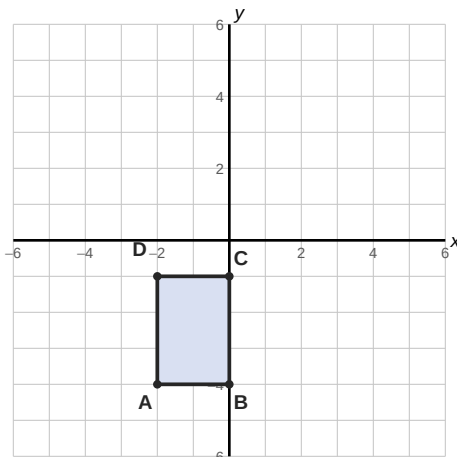


Image coordinates:

A' (,)

B' (,)

C' (,)

D' (,)

Original:

A (-2, -4)

B (0, -4)

C (0, -1)

D (-2, -1)

12. Translate using the rule $(x, y) \rightarrow (x + 4, y - 6)$.

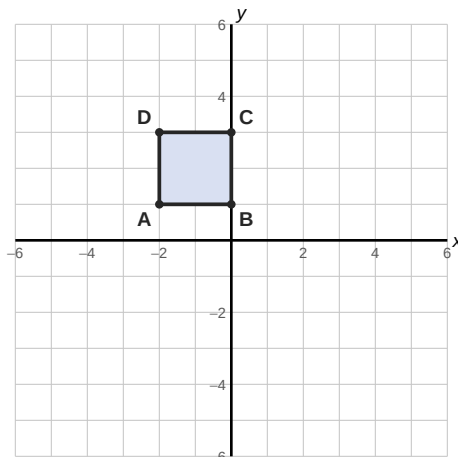


Image coordinates:

A' (,)

B' (,)

C' (,)

D' (,)

Original:

A (-2, 1)

B (0, 1)

C (0, 3)

D (-2, 3)