

# 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 4 units left and 3 units up.

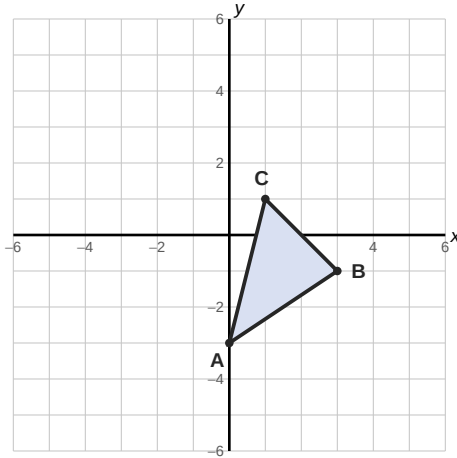


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (0, -3)

$B$  (3, -1)

$C$  (1, 1)

2. Translate using the rule  $(x, y) \rightarrow (x, y + 6)$ .

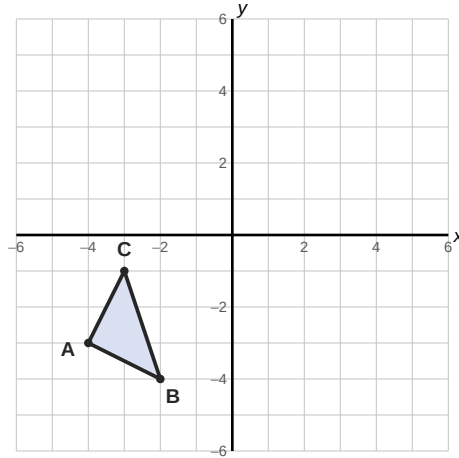


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (-4, -3)

$B$  (-2, -4)

$C$  (-3, -1)

3. Translate the figure 6 units right and 6 units up.

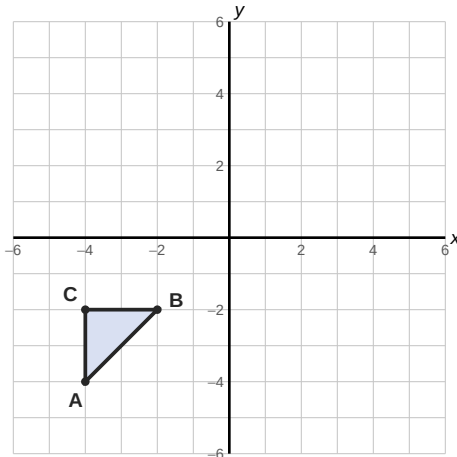


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (-4, -4)

$B$  (-2, -2)

$C$  (-4, -2)

4. Translate using the rule  $(x, y) \rightarrow (x - 3, y - 3)$ .

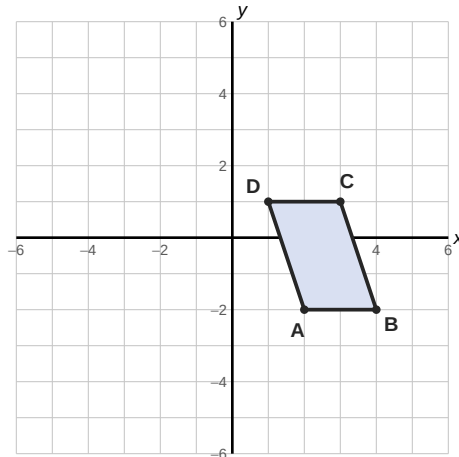


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

$D'$  (     ,     )

Original:

$A$  (2, -2)

$B$  (4, -2)

$C$  (3, 1)

$D$  (1, 1)

5. Translate the figure 4 units right and 3 units down.

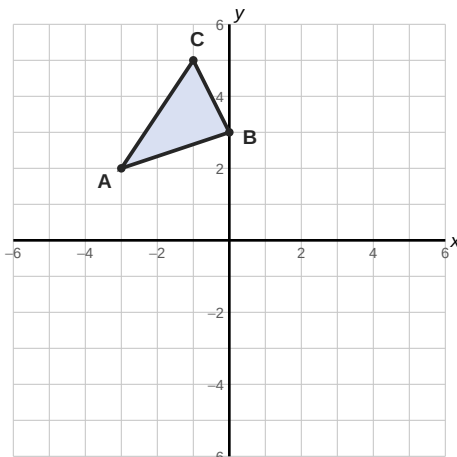


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (-3, 2)

$B$  (0, 3)

$C$  (-1, 5)

6. Translate using the rule  $(x, y) \rightarrow (x + 5, y + 1)$ .

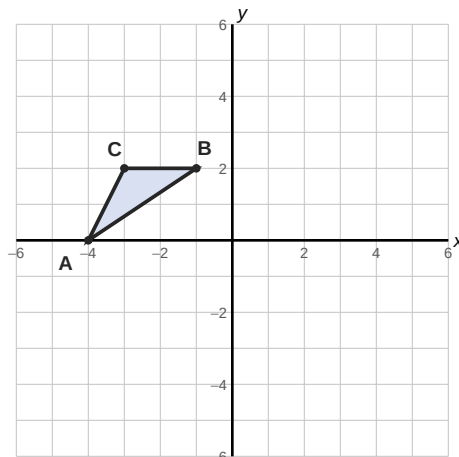


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (-4, 0)

$B$  (-1, 2)

$C$  (-3, 2)

# 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 5 units left and 2 units up.

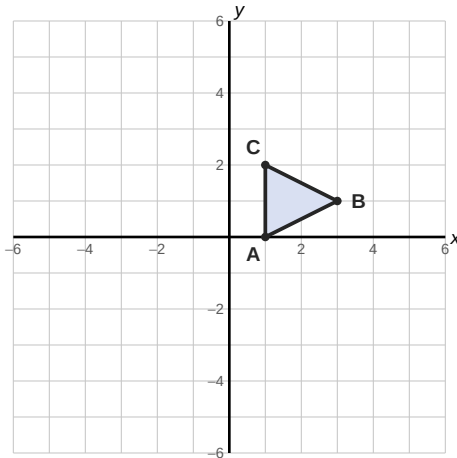


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (1, 0)

$B$  (3, 1)

$C$  (1, 2)

8. Translate using the rule  $(x, y) \rightarrow (x - 4, y + 2)$ .

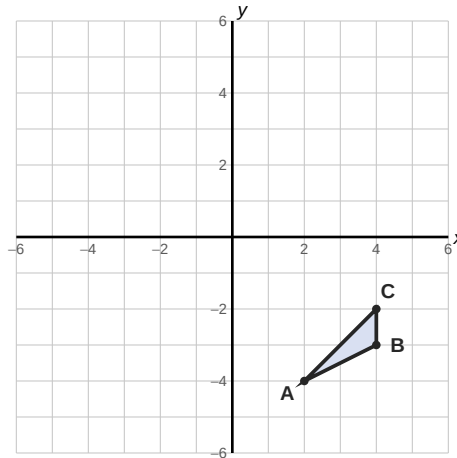


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (2, -4)

$B$  (4, -3)

$C$  (4, -2)

9. Translate the figure 3 units right and 4 units down.

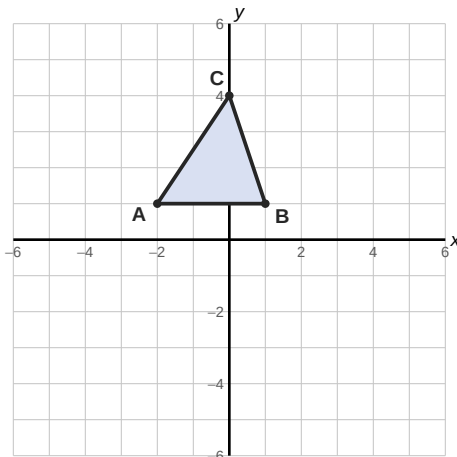


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (-2, 1)

$B$  (1, 1)

$C$  (0, 4)

10. Translate using the rule  $(x, y) \rightarrow (x - 3, y - 5)$ .

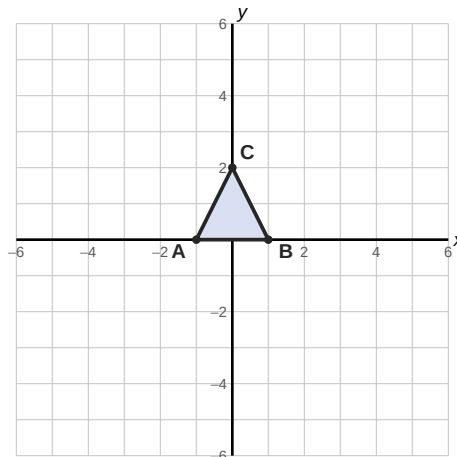


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (-1, 0)

$B$  (1, 0)

$C$  (0, 2)

11. Translate the figure 2 units right and 3 units down.

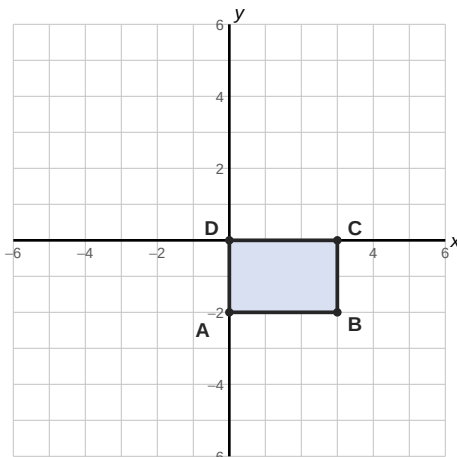


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

$D'$  (     ,     )

Original:

$A$  (0, -2)

$B$  (3, -2)

$C$  (3, 0)

$D$  (0, 0)

12. Translate using the rule  $(x, y) \rightarrow (x + 2, y - 6)$ .

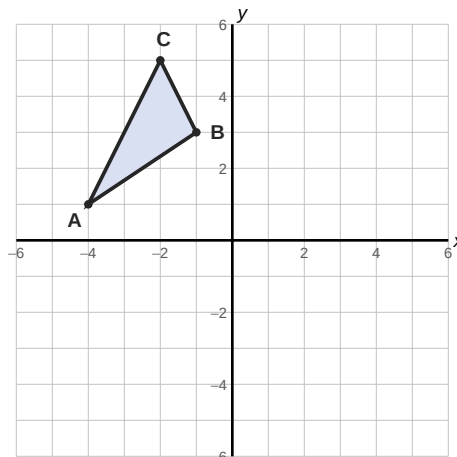


Image coordinates:

$A'$  (     ,     )

$B'$  (     ,     )

$C'$  (     ,     )

Original:

$A$  (-4, 1)

$B$  (-1, 3)

$C$  (-2, 5)