

Lesson 5-6

transformation

Definition

When you move an object on the coordinate plane

Example

translation
reflection
rotation

translation

Definition

When you "slide" an object

Example



reflection

Definition

When you "flip" an object

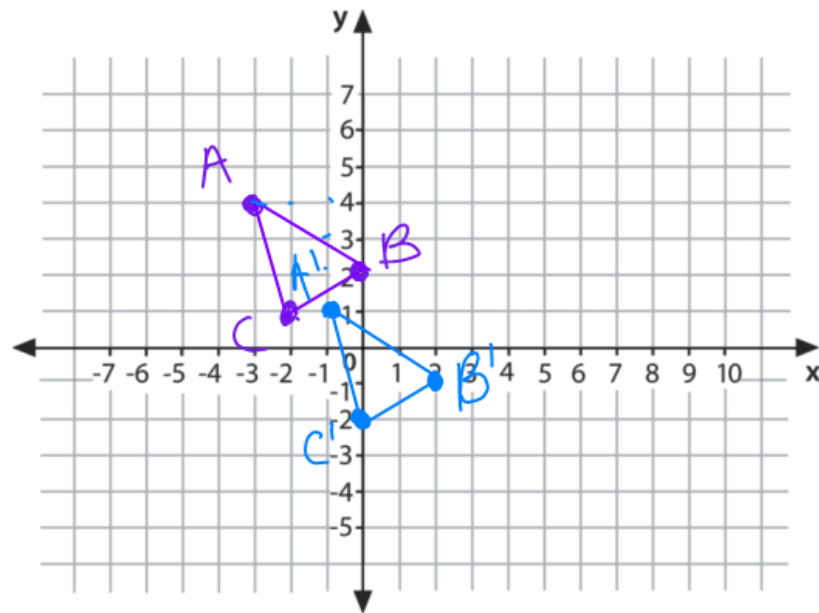
Example



Example 1: Graphing Translations on the Coordinate Plane

Graph triangle ABC. Then translate the triangle 2 units right and 3 units down.

I Do

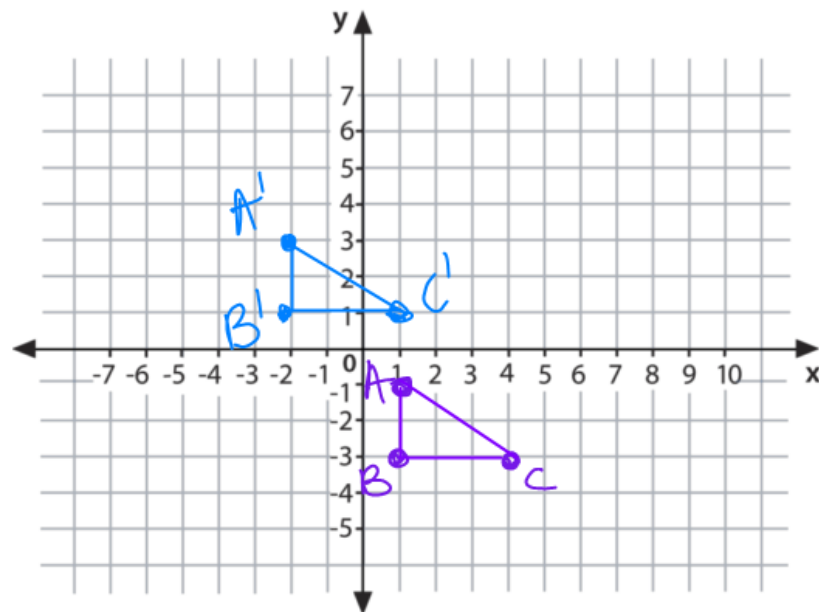
 $A(-3, 4)$, $B(0, 2)$, $C(-2, 1)$ A' 

Example 1: Graphing Translations on the Coordinate Plane

Graph triangle ABC. Then translate the triangle 3 units left and 4 units up.

You Do

$A(1, -1)$, $B(1, -3)$, $C(4, -3)$

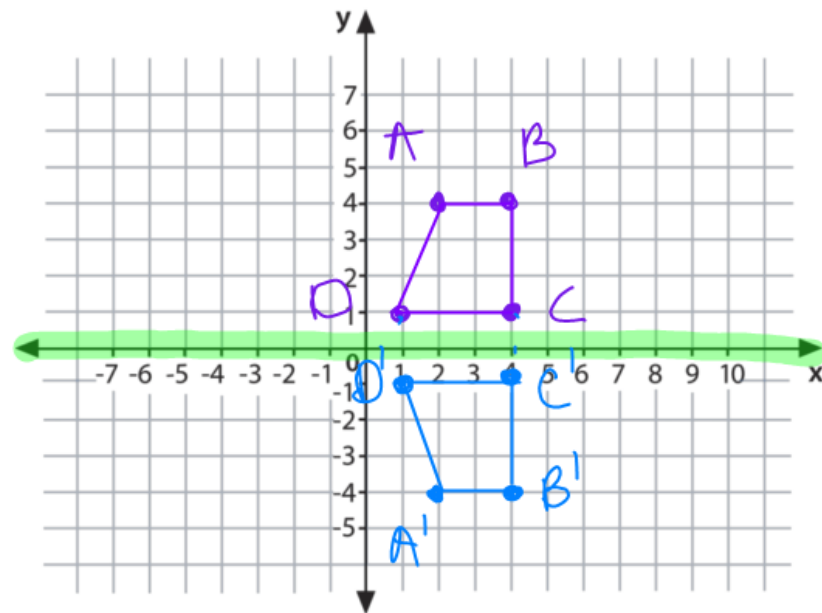


Example 2: Graphing Reflections on the Coordinate Plane

Graph quadrilateral ABC. Then reflect the image across the x-axis.

I Do

$A(2, 4)$, $B(4, 4)$, $C(4, 1)$, $D(1,1)$



Example 2: Graphing Reflections on the Coordinate Plane

Graph quadrilateral ABC. Then reflect the image across the **x-axis**.

You Do

$A(-4, 1)$, $B(-2, 1)$, $C(-1, -2)$, $D(-4, -3)$

