

Challenge Problems

11.1

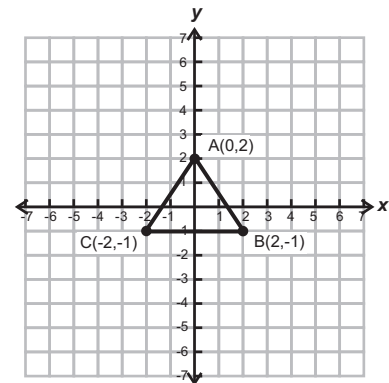
NAME _____

Module 11 Transformation of Shapes
Lesson 1 Translations and Reflections

Set 1

1 Point A is translated using the motion rule $(x, y) \rightarrow (x + 3, y - 4)$. The coordinates of A' are $(2, -1)$. What are the coordinates of A ?

2 Reflect $\triangle ABC$ across the y -axis.
Give the coordinates of A' , B' , and C' .

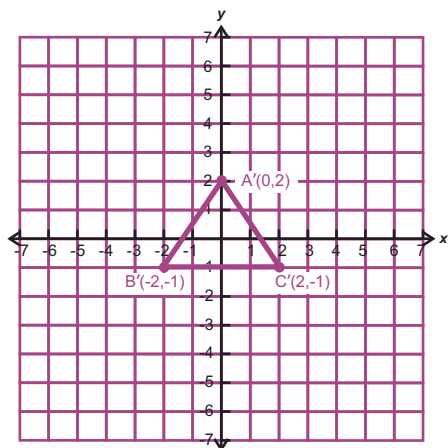


3 Reflect $\triangle ABC$ across the x -axis.
Give the coordinates of A' , B' , and C' .

Possible Answers

Set 1

1. The x -coordinate of the image is $x + 3 = 2$, or $x = -1$. The y -coordinate of the image is $y - 4 = -1$, or $y = 3$. Point A has coordinates $(-1, 3)$.
- 2.



- 3.

