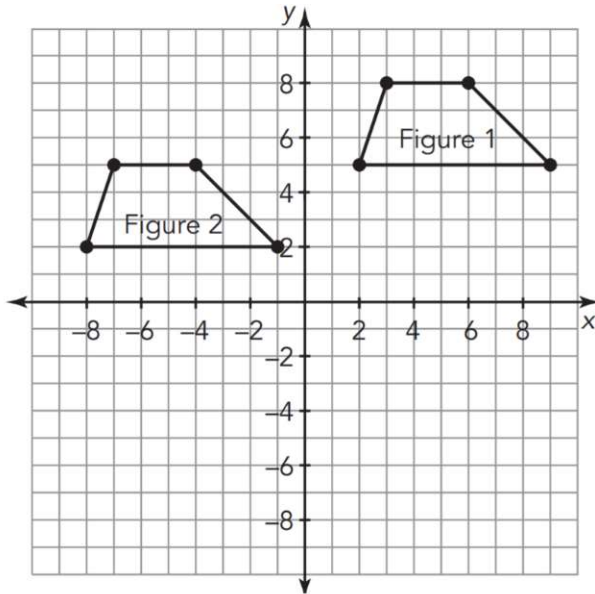


Module 1: Topic 1 Lesson 3 Assignment

1. A **TRANSLATION** is a transformation which _____ each point of a figure the same _____ and the same _____.

2. Anytime a translation is performed, the pre-image and image **will always** be _____.



Use the graph on the left to answer following questions.

3a. Describe the sequence of translations used to move Figure 1 onto Figure 2.

b. Write the rule for the translation.

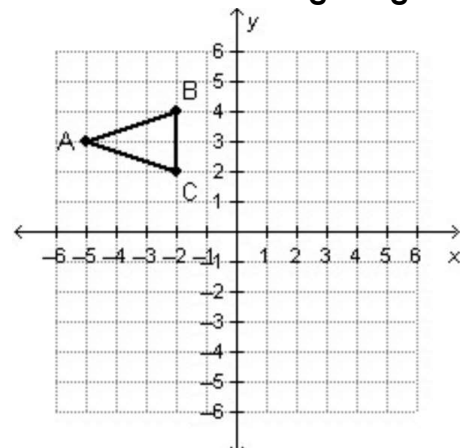
$(x, y) \rightarrow$ _____

4. Use the coordinates of the pre-image to determine how the trapezoid was translated to get the resulting image.

A (2,5)	A' (3,-3)
B (3,8)	B' (4, 0)
C (6, 8)	C' (7, 0)
D (9, 5)	D' (10, -3)

5. Translate Triangle ABC **right 5 units** and **down 7 units**.

Draw and label the resulting image.



6. Triangle XYZ is graphed on a coordinate plane and has vertices of $(-3, -6)$, $(0, 0)$ and $(4, 5)$. If triangle XYZ is translated **4 units to the right** and **7 units down**, what will the coordinates of the image be?

X' _____ y' _____ Z' _____