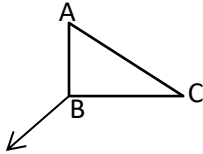


1. Determine the coordinates of the image, plot the image and determine if it is a rigid transformation or not. Label the image appropriately.

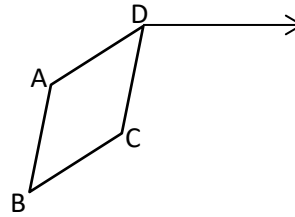
PRE-IMAGE	Transformation	COORDINATES	PLOT THE IMAGE
	<p><b>a) Pre-Image Points</b>                      A (1,-4)                      B (2,-1)                      C (6,-4)</p> <p><b>Coordinate Rule</b>  <math>(x,y) \rightarrow (y, -x)</math></p>	<p><b>Image Points</b>                      A' (____,____)                      B' (____,____)                      C' (____,____)</p> <p>Rigid Motion? Yes or No                      Transformation Type:</p>	
	<p><b>b) Pre-Image Points</b>                      A (-5,-1)                      B (-4,2)                      C (0,-1)</p> <p><b>Coordinate Rule</b>  <math>(x,y) \rightarrow (x, 3y)</math></p>	<p><b>Image Points</b>                      A' (____,____)                      B' (____,____)                      C' (____,____)</p> <p>Rigid Motion? Yes or No                      Transformation Type:</p>	
	<p><b>c) Pre-Image Points</b>                      A (1,-4)                      B (2,-1)                      C (6,-4)</p> <p><b>Coordinate Rule</b>  <math>(x,y) \rightarrow (y, x)</math></p>	<p><b>Image Points</b>                      A' (____,____)                      B' (____,____)                      C' (____,____)</p> <p>Rigid Motion? Yes or No                      Transformation Type:</p>	
	<p><b>d) Pre-Image Points</b>                      A (-3,1)                      B (-2,4)                      C (2,1)</p> <p><b>Coordinate Rule</b>  <math>(x,y) \rightarrow (y-2, x+3)</math></p>	<p><b>Image Points</b>                      A' (____,____)                      B' (____,____)                      C' (____,____)</p> <p>Rigid Motion? Yes or No                      Transformation Type:</p>	
	<p><b>e) Pre-Image Points</b>                      A (-5,-4)                      B (-3,2)                      C (5,-4)</p> <p><b>Coordinate Rule</b>  <math>(x,y) \rightarrow (.5x, .5y)</math></p>	<p><b>Image Points</b>                      A' (____,____)                      B' (____,____)                      C' (____,____)</p> <p>Rigid Motion? Yes or No                      Transformation Type:</p>	

2. Complete each of the following transformations. Show your work and label the image appropriately.

a)



b)



3. Given a translation rule, determine the missing point.

a)  $(x,y) \rightarrow (x + 3, y - 5)$       A (-4,7)      A' (\_\_\_\_\_, \_\_\_\_\_)

b)  $(x,y) \rightarrow (x - 7, y - 1)$       A (9,1)      A' (\_\_\_\_\_, \_\_\_\_\_)

c)  $(x,y) \rightarrow (x + 1, y + 6)$       A (\_\_\_\_\_, \_\_\_\_\_)      A' (4,-1)

d) What was different about part c? How did you figure out the answer?

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4. Write the arrow notation that matches the description.

a) 4 down and 3 right       $(x,y) \rightarrow (_____, _____)$

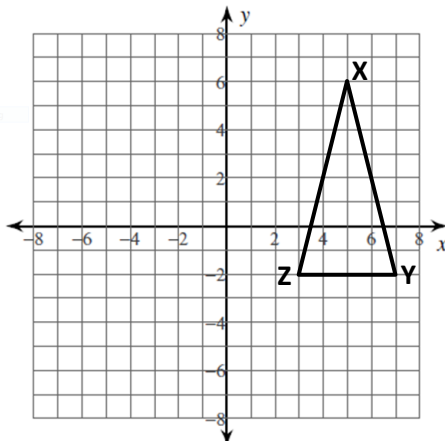
b) left 7 and down 2       $(x,y) \rightarrow (_____, _____)$

c) right 1       $(x,y) \rightarrow (_____, _____)$

5. A translation description and either a preimage or image is provided. Circle which is displayed. Then, draw and appropriately label the missing image or preimage.

a)  $(x, y) \rightarrow (x - 3, y + 1)$

Preimage OR Image



b)  $(x, y) \rightarrow (x + 2, y)$

Preimage OR Image

