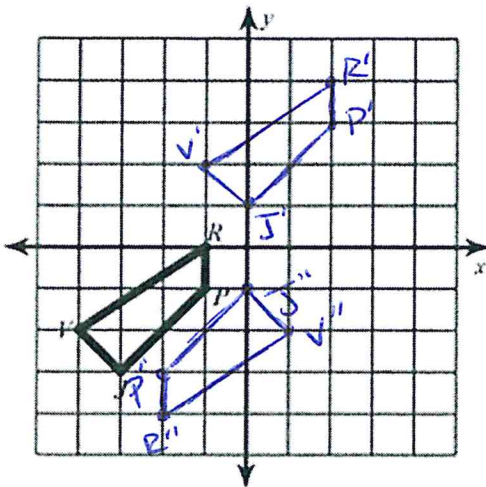


Applying Transformations Review

Name: Key

Hour: _____

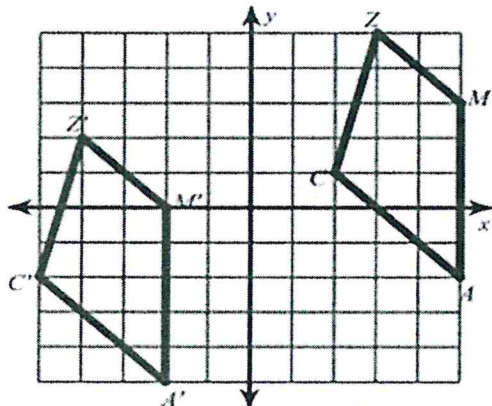


1) Perform two different transformations on the given figure RPVJ and write the new coordinates for R''P''V''J''

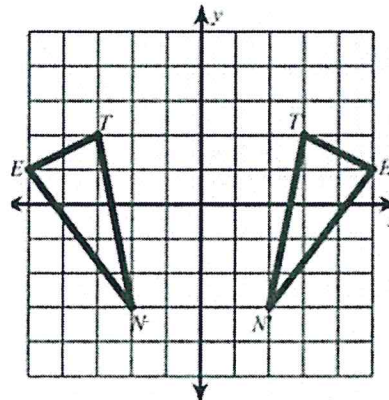
a- Translate the given picture 3 units right and 4 units up

b- Rotate 180 degrees

2) Write a rule describing the below transformations



$(x, y) \rightarrow (x-7, y-3)$
LEFT 7, DOWN 3



REFLECT ACROSS y-AXIS

3) Write the rules of the following transformations:

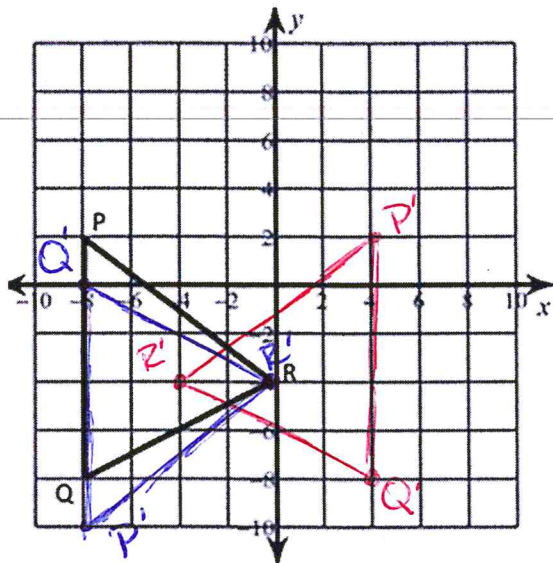
a- Reflect across x-axis $(x, y) \rightarrow (x, -y)$

b- Reflect across y-axis $(x, y) \rightarrow (-x, y)$

c- Rotate 180 degrees $(x, y) \rightarrow (-x, -y)$

d- Translate 2 units down and 4 units to the right $(x, y) \rightarrow (x+4, y-2)$

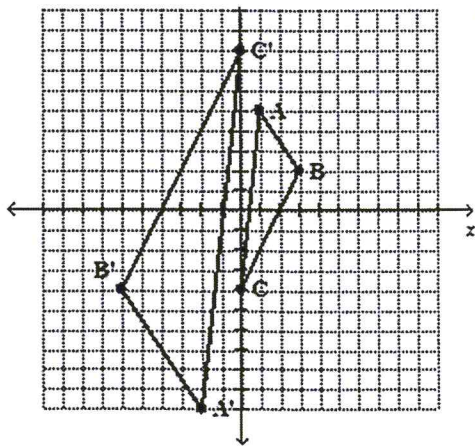
e- Dilation by a scale factor of 8 $(x, y) \rightarrow (8x, 8y)$



4) Reflect the given image across $x = -2$

5) Reflect the given image across $y = -4$

6) Describe the series of transformations performed in the below picture and write a rule describing them



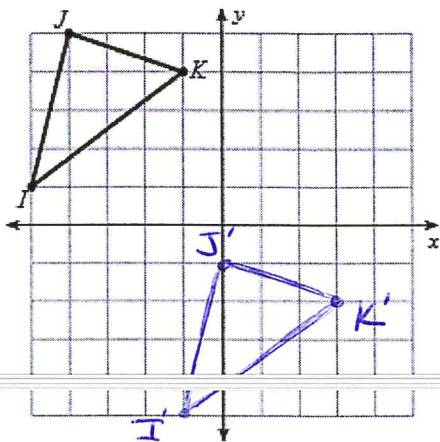
Dilation with a scale factor of 2 and a 180° rotation

$$(x, y) \rightarrow (-2x, -2y)$$

7.

Graph the image of the figure using the transformation given.

translation: 4 units right and 6 units down



reflection across $y = 1$

