

Name _____

Transformations Quiz

1. List and define the three types of transformations we talked about this week:

T

R

R

Do problems 2, 3, and 4 on graph paper. Graph the original and the transformed shapes, labeling each vertex with its name. Each problem should be done on separate coordinate axes. *Remember to give the coordinates for each new point.*

M (-3, 2)

R (0, 6)

G (2, -1)

2. Translate triangle MRG 5 units right and 2 units down.
3. Reflect triangle MRG across the y-axis.
4. Rotate triangle MRG 90 degrees clockwise about the origin.

BONUS: Without graphing, transform quadrilateral KRIS as follows (just give the final coordinates):

Translate KRIS 37 units right, then 59 units down, then 29 units left. Then, reflect KRIS across the x-axis. Then rotate KRIS 90 degrees counter-clockwise about the origin. Finally, translate KRIS 18 units right.

K (18, 40)

R (3, 12)

I (7, 11)

S (20, 5)