**Quarterly Assessment 1 Review 2 Geometry 2017**

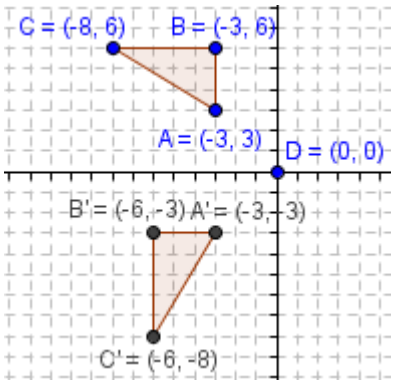
Name _____ Date_____ Period_____ Seat_____

**Answer each question completely, showing your work.**

1. The vertices of a triangle are *P*(-3, 8), *Q*(–9, -5), and *R*(-3,3). Name the vertices of the image reflected over the *x*-axis. _____

   Over the y – axis: _____

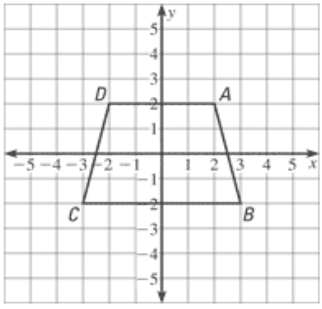
2. Which of the following transformations is illustrated by the graph below?




3. The image of (-2, 6) after a dilation with respect to the origin is (-8, 24). What is the scale factor of the dilation?

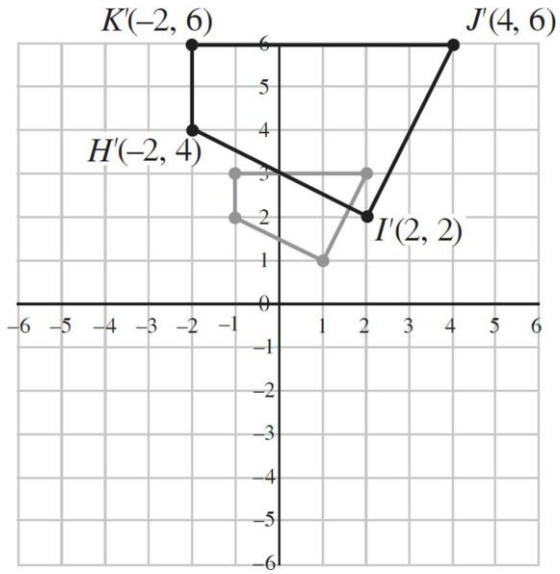
4. Given the point (-8, -4), where will its image be after the translation (x, y) -> (x – 2, y + 4)?

5. Describe the following transformation from ABCD to A'B'C'D' if D'(2,-2) A'(-2,-2), B' (-3, 2) and C' (3,2)



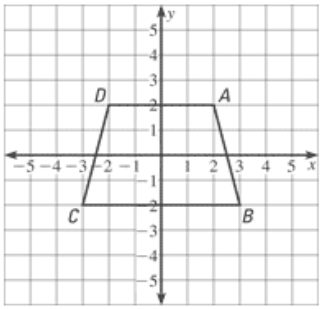

6. If the following transformations takes place on a polygon, describe the results: A. (x , y) -> (1/4x, y)
   B. (x, y) -> (x, 3y)

7. If the center of a circle is at (-2, 3). After the transformation (2x+ 5, 2y – 7), where will the center be?_____




8. What is the center of the above dilation?

9. Suppose ABCD is transformed so that image of A is (2, -1). Write a general rule that describes the transformation.




10. Given the points
**K (0, -4) P (-6, -3) R (1, 2)**

Reflect: over the x-axis
Rotate: 270 CCW

K' →

P' →

R' →

K'' →

P'' →

R'' →