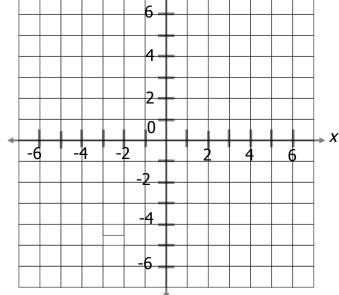
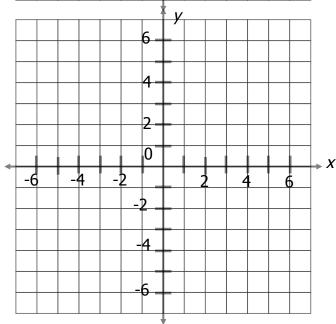
P.S. #6.5b - Review for Quiz #6 (Transformations)

Name:	Class	

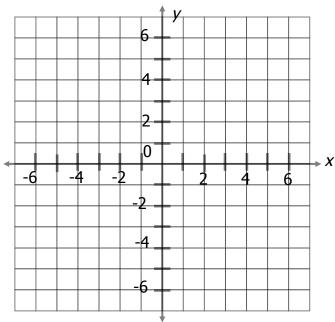
- 1.) If the area of a triangle is 72, what is the area of the triangle after it is reflected in the x-axis?
- 2.) If the perimeter of a hexagon is 9, what is the perimeter of the hexagon after a dilation with scale factor 10? _____
- 3.) Which of the following words has point symmetry?
 - (A) wow
- (B) mom
- (C) dog
- (D) pod
- 4.) Graph $\triangle ABC$ with coordinates A(2,4), B(4,6) and C(4,2).
 - a.) Dilate $\triangle ABC$ with a scale factor of 1/2. What are the coordinates of $\triangle A'B'C$?
 - b.) Consider the translation $(x,y) \rightarrow (x-5,y-2)$. What direction does this translation move the figure?



- c.) Translate $\Delta A'B'C'$ using the rule $(x,y) \rightarrow (x-5,y-2)$. What are the coordinates of $\Delta A''B''C''$?
- 5.) Draw hexagon JAYDEN with coordinates J(1,2), A(2,5), Y(5,5), D(6,2), E(5,-1) and D(2,-1). Then, draw pentagon J'AY'D'E'N' after a reflection in the line x = 1. What are coordinates of the image J'AY'D'E'N'?



6.) Draw ΔTRI with coordinates T(1,3), R(4,7), and I(7,0). Then draw ΔTRI after a reflection in the line y = -x. What are the new coordinates?



- 7.) In which transformation is size not preserved?
 - (A) dilation
- (B) reflection
- (C) rotation
- (D) translation

- 8.) In which transformation is orientation not preserved?
 - (A) dilation
- (B) reflection
- (C) rotation
- (D) translation

- 9.) Plot and label $\triangle PQR$ on the graph below given P(2,6), Q(-1,3), and R(-4,6).
 - a.) Rotate ΔPQR 270° counterclockwise. State the coordinates.

