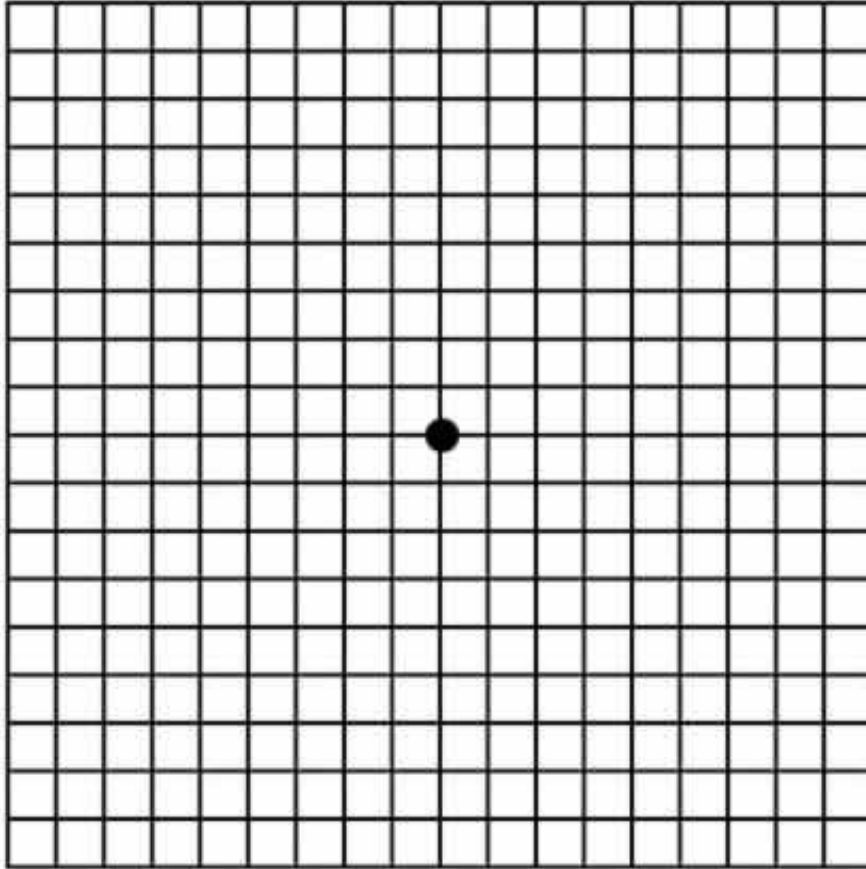


Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
Class: \_\_\_\_\_

Geometry  
Unit 5  
HW 5-4

1)



Using  $\triangle QRS$  with  $Q(2,4)$ ,  $R(6,0)$  and  $S(1,-2)$

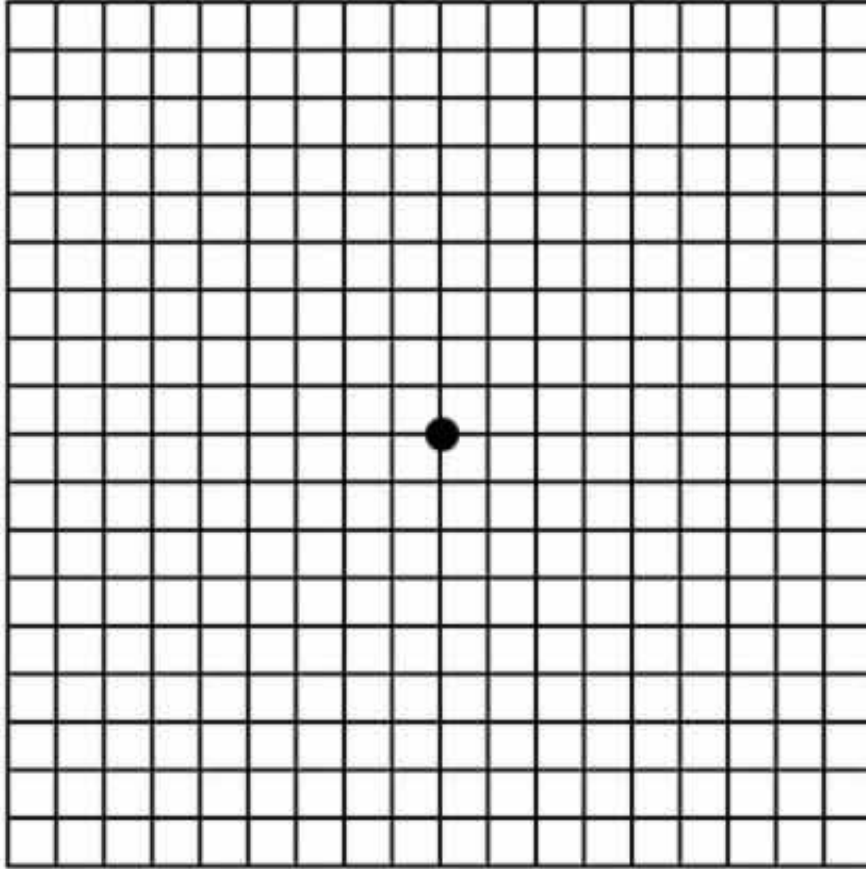
Find the image of  $QRS$  using  $T_{-2,-4} \circ R_{90^\circ} \circ D_{\frac{1}{2}}$

2) If you perform the following composition of transformations on a triangle with the image and preimage be congruent? Why or why not?

$$D_2 \circ T_{-2,4} \circ R_{90^\circ} \circ D_{\frac{1}{2}}$$

3) Will the composition of transformations in #2 be direct or indirect? Why?

4)



Using Quadrilateral XRKT with  $X(-1,4)$ ,  $R(3,2)$ ,  $K(2,-4)$  and  $T(-4,-6)$  graph on the same set of axis:

- the image of XRKT using  $(x,y) \rightarrow (x + 3, y + 4)$
- the image of  $X'R'K'T'$  using  $R_{270^\circ}$
- the image of  $X''R''K''T''$  using  $T_{(-1,-2)}$