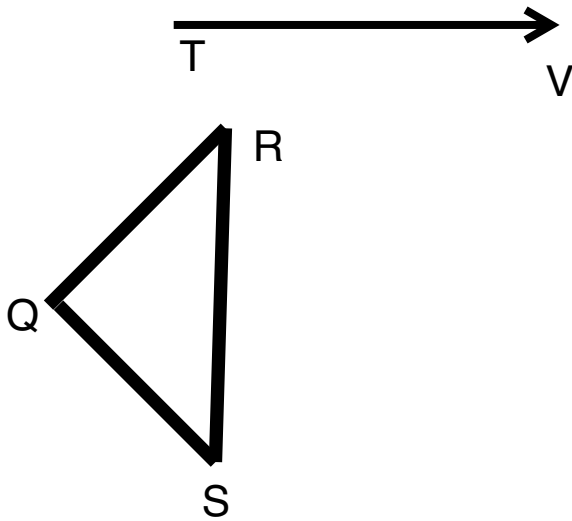


Name: \_\_\_\_\_

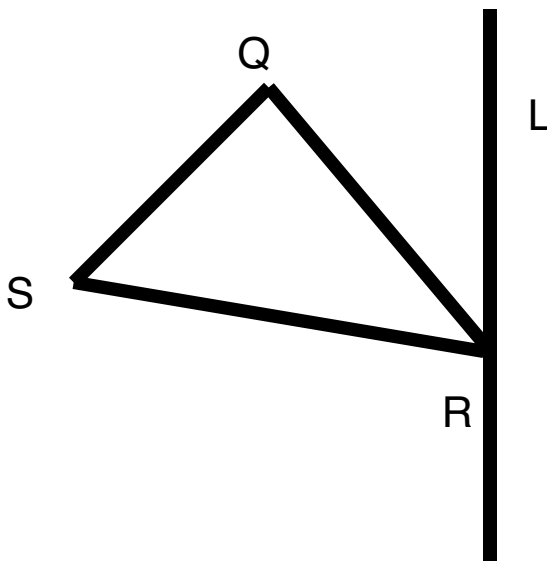
### Mid Module 2 Assessment

1.

A. Translate figure QRS along vector TV. Label the image of the figure with Q', R', and S'. Explain the steps that you took. (slide along vector TV)

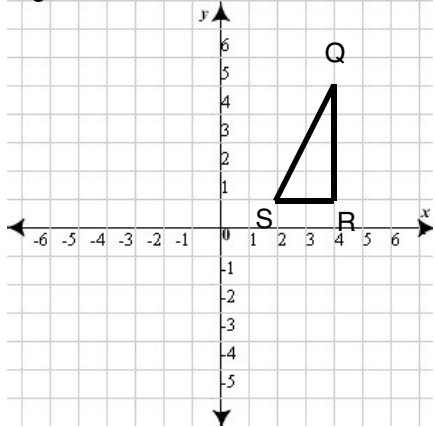


B. Reflect figure QRS across the line of reflection, l. Label the image with Q', R', and S'. Explain the steps that you took. (Flip over line L)

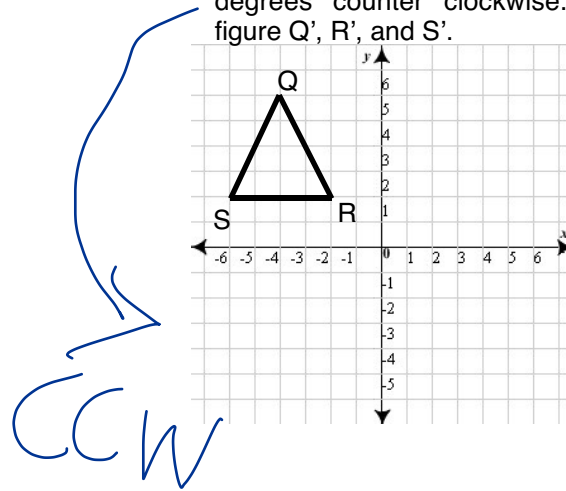


## C. Rotate the following images

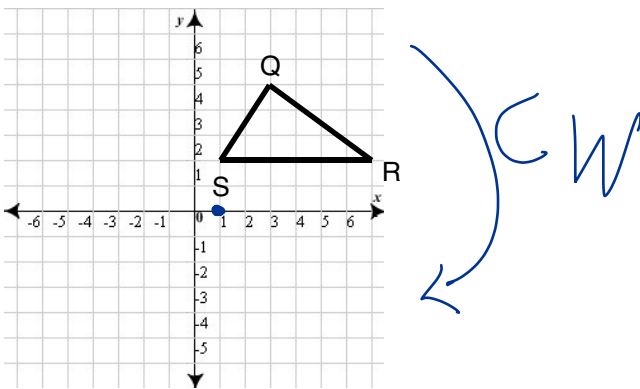
i. Rotate figure QRS around the origin 180 degrees. Label the rotated figure  $Q'$ ,  $R'$ , and  $S'$



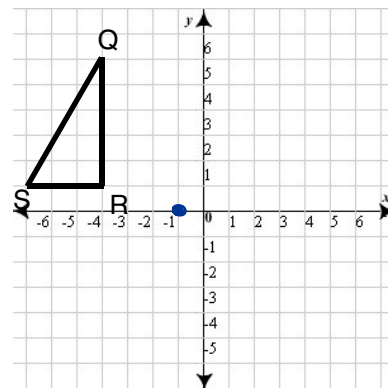
ii. Rotate figure QRS around the origin 90 degrees counter clockwise. Label the new figure  $Q'$ ,  $R'$ , and  $S'$ .



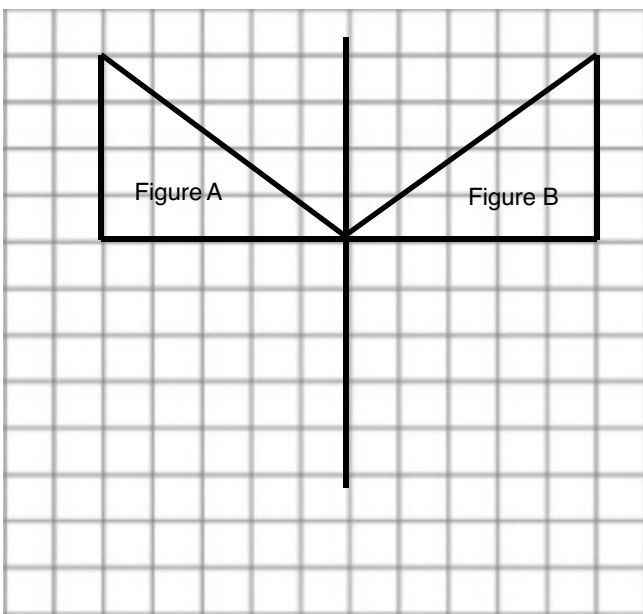
iii. Rotate figure QRS around the point  $(1,0)$  90 degrees clockwise. Label the new figure  $Q'$ ,  $R'$ , and  $S'$ .



iv. Rotate figure QRS around the point  $(-1,0)$  180 degrees. Label the new figure  $Q'$ ,  $R'$ , and  $S'$ .



2. Use the picture below to answer the following questions.

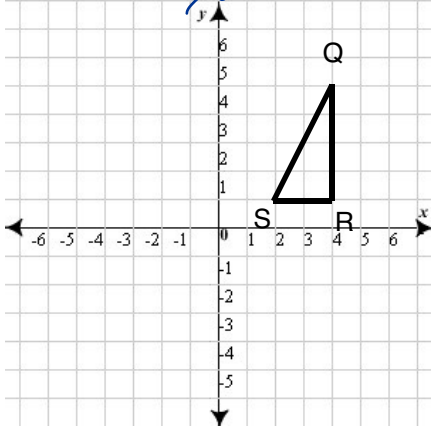


A. Can figure A be mapped onto figure B using only translation? Explain. Use drawings as needed in your explanation. (Slide)

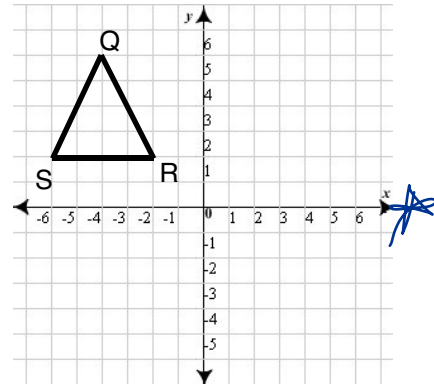
B. Can figure A be mapped onto figure B using only reflection? Explain. Use drawings as needed in your explanation. (Flip)

### 3. Reflect the following images

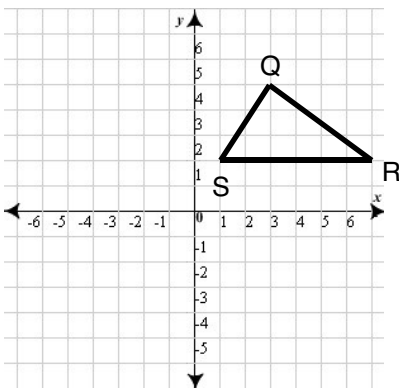
i. Reflect figure QRS over the y axis. Label the new figure Q', R', and S'



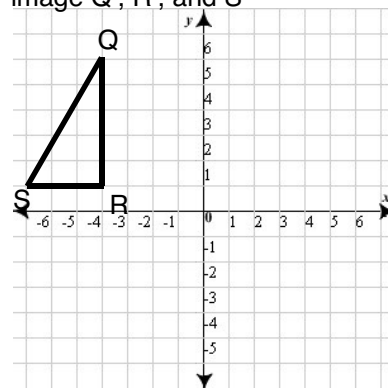
ii. Reflect figure QRS over the x axis. Label the new figure Q', R', and S'



iii. Reflect figure QRS over the horizontal line through point (0,1). Label the reflected image Q', R', and S'

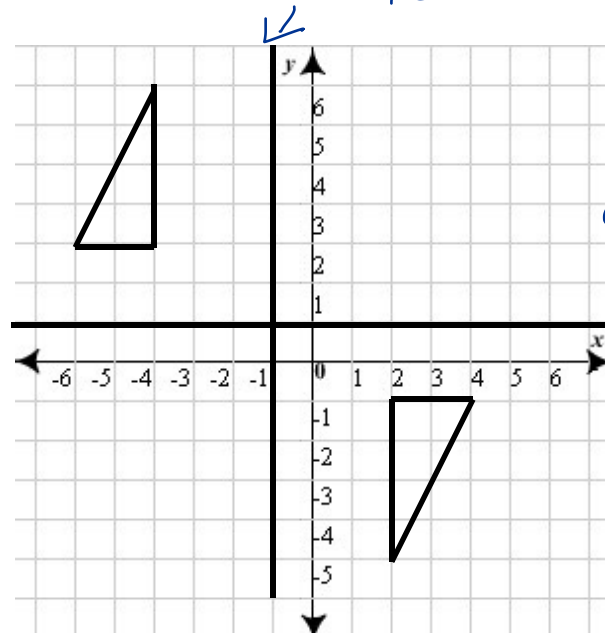


iv. Reflect figure QRS over the vertical line through point (-1,0). Label the reflected image Q', R', and S'



4. One triangle in the diagram can be mapped onto the other using two reflections. Identify the two lines of reflections. Can you map one triangle onto the other using one basic rigid motion? If so, explain.

2nd line of reflection



1st line of reflection