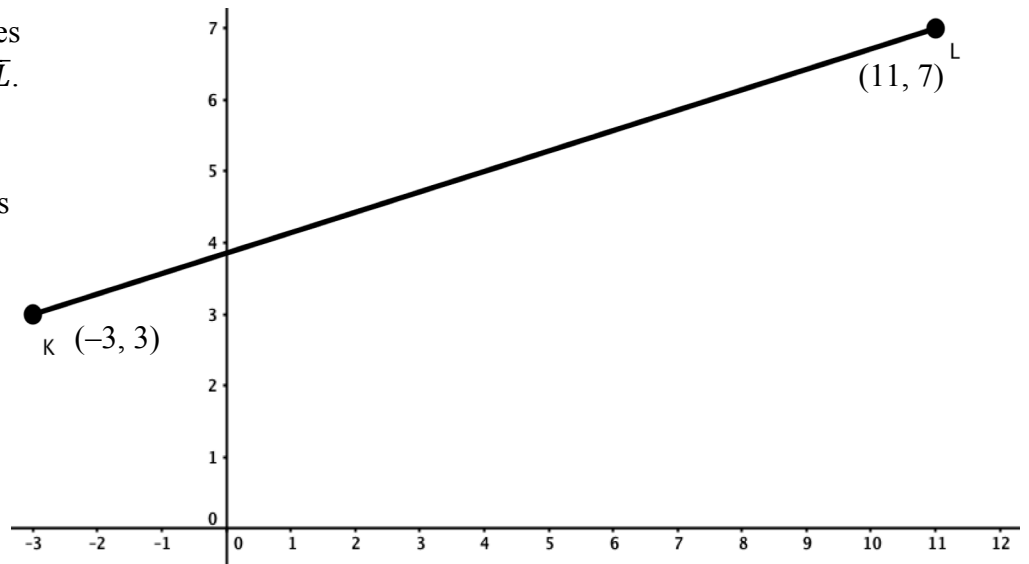


**Geometry – Bisectors in Triangles**  
**9a Homework: Area & Medians of Triangles**

Name \_\_\_\_\_  
Pd \_\_\_\_\_ Date \_\_\_\_\_

1. Determine the coordinates of the midpoint,  $M$ , of  $\overline{KL}$ . Show how you used the midpoint formula to determine the coordinates of  $M$ .

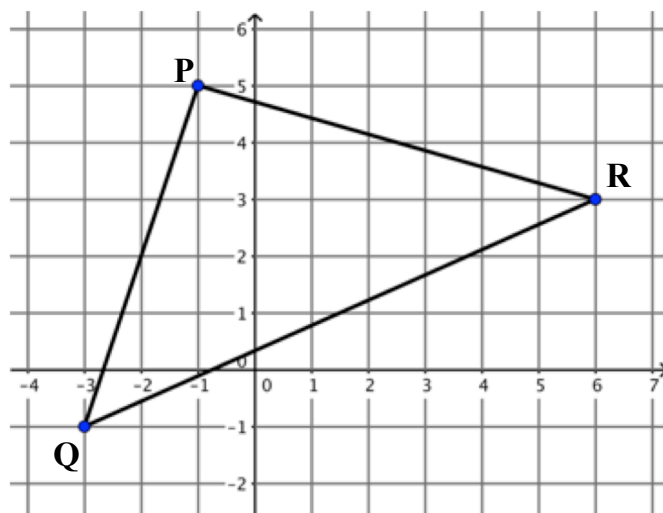
Then, plot the location of  $M$  and label its coordinates in the diagram to the right.



2. Using the same diagram above (in question 1), draw  $\triangle JKL$  such that  $J$  is at  $(9, 1)$ . Then, draw the three medians of  $\triangle JKL$  and label the coordinates of the midpoint of each side of the triangle.

3.  $\triangle PQR$  is shown in the coordinate plane to the right.

A. Draw all three medians of  $\triangle PQR$  and label the coordinates of the midpoint of each side of the triangle.



B. Analyze the 3 medians you drew in  $\triangle PQR$ . Also, analyze 3 medians you drew in  $\triangle JKL$  (in question 2, above). What do you notice about the 3 medians in both triangles?