

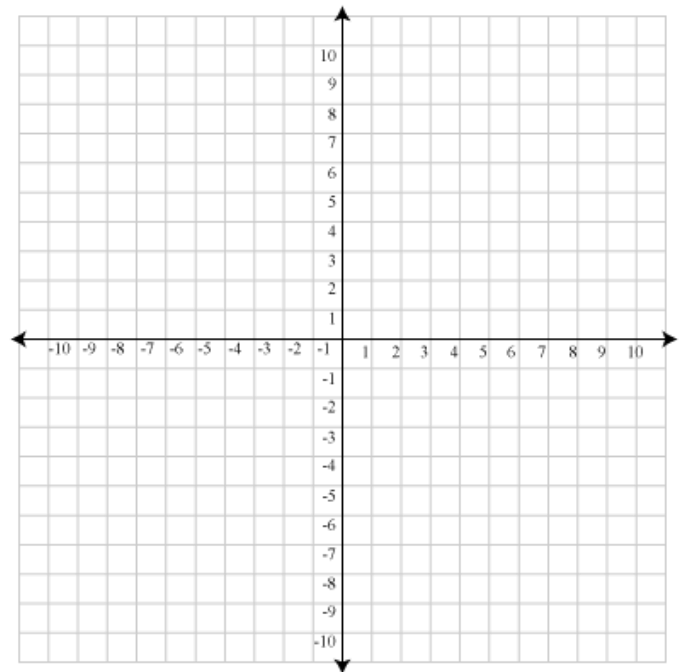
**MEDIAN AND ALTITUDE****LEARNING GOALS**

Students will:

- Learn how to find the altitude of a triangle.

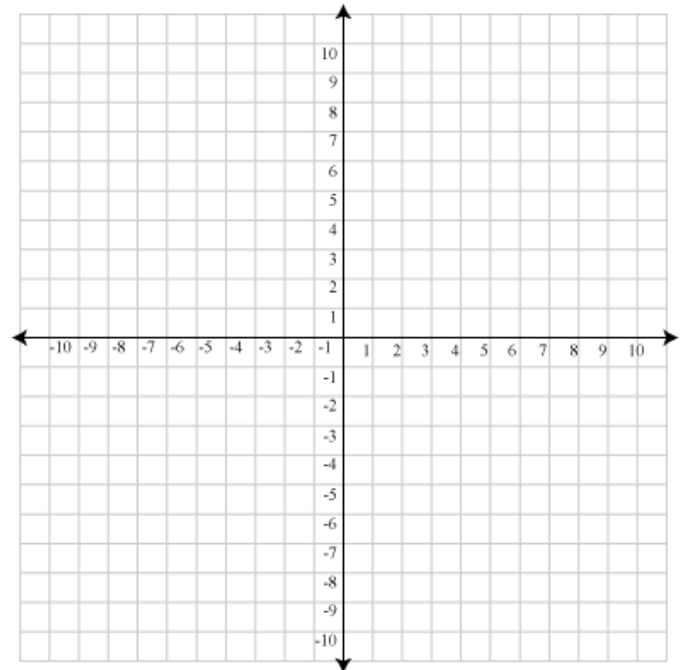
**REVIEW: MEDIAN****EXAMPLE 1: DETERMINE A GEOMETRIC PROPERTY ALGEBRAICALLY**

The vertices of triangle ABC are A (5, 5), B (-3, -1), and C (1, -3). Determine whether triangle ABC is a right triangle.



## EXAMPLE 2: MEDIAN TO HYPOTENUSE

Show that the median from the right angle of the triangle in Example 2, is half as long as the hypotenuse.



Altitude

## EXAMPLE 3: AREA OF A TRIANGLE

Show that the altitude from each vertex of  $\triangle ABC$  can be used to find the area of the triangle.

