

## PROOFS USING COORDINATE GEOMETRY



# OUTLINE

### EXAMPLE #1

♥ EXAMPLE #2

### THEOREM:

The midpoint of the hypotenuse of a right triangle is equidistant from the three vertices.

### Given:

Δ.ABC is a right triangle;

M is the midpoint of  $\overline{BC}$ 

### Prove:

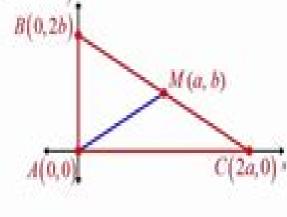
AM=BM+MC

# EXAMPLE #1

### Coordinate Proof:

 Use the Midpoint Formula to find the coordinates of M.

$$M\left(\frac{0+2a}{2}, \frac{2b+0}{2}\right) = M\left(\frac{2a}{2}, \frac{2b}{2}\right) = M(a,b)$$



Use the Distance Formula to find the values of AM, BM, and MC.

$$AM = \sqrt{(a-0)^2 + (b-0)^2} = \sqrt{a^2 + b^2}$$

$$BM = \sqrt{(a-0)^2 + (b-2b)^2} = \sqrt{a^2 + (-b)^2} = \sqrt{a^2 + b^2}$$

$$MC = \sqrt{(2a-a)^2 + (0-b)^2} = \sqrt{a^2 + (-b)^2} = \sqrt{a^2 + b^2}$$

Since AM = BM = MC, the midpoint of the hypotenuse is equidistant from the vertices of the right triangle.

### **Holt Geometry Introduction To Coordinate Proof**

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