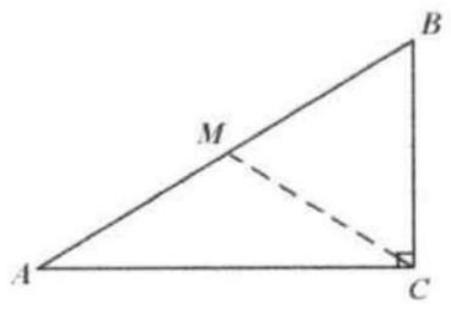
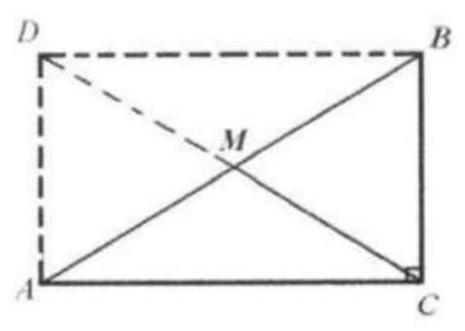
## Example 2

Show that the measure of the median on the hypotenuse of a right triangle is one-half the measure of the hypotenuse ( AM=MB=MC ).

Proof: Extend CM to D such that CM = DM.



Connect BD and AD. AB and CD are two diagonals and they bisect each other. So ACBD is a parallelogram. Since  $\angle C = 90^\circ, ACBD$  is a rectangle.



Thus DM = MC = AM = MB.