

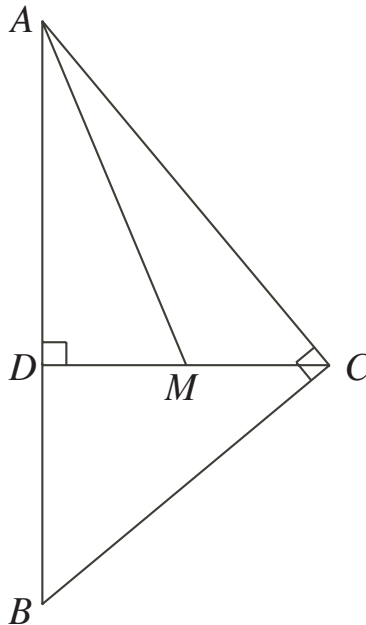


Problem of the Week

Problem D

Medians and Altitudes

A *median* is a line segment drawn from the vertex of a triangle to the midpoint of the opposite side. An *altitude* is a line segment drawn from a vertex of a triangle to the opposite side intersecting at 90° .



In $\triangle ABC$, $\angle ACB = 90^\circ$. An altitude is drawn in $\triangle ABC$ from C to AB intersecting at D . A median is drawn in $\triangle ADC$ from A meeting DC at M . The length of the median AM is 13 and AD is 12.

Determine the length of BD .

