## H.Geometry - Chapter 4 - Definition Sheet

## In an Isosceles Triangle, the angle bisector of the vertex angle is also the **Vertical Angle Bisector Theorem** altitude to the base, the median to the base and the 1 bisector to the base. construct attitude construct median BM construct 1 bisactor OF AC conclusion: they are all the same segment!

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How do the medians of an isosceles triangle relate to each other?

construct median

CD and AE

 $\begin{array}{c} B \\ \hline D \\ \hline D \\ \hline C \\ \hline D \\ \hline C \\ \hline A \\ \hline D \\ \hline C \\ \hline A \\ \hline \end{array}$ 

Isosceles Triangle Medians
Theorem

In an Isosceles Triangle, the medians to the legs are CONQUENT

How do the altitudes of an isosceles triangle relate to each other?

FG and DH

F  $DH \cong FG$ 

Isosceles Triangle Altitudes
Theorem