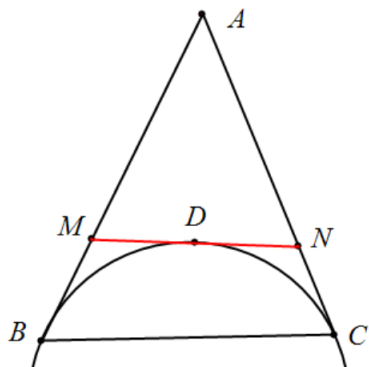


Example 1 35 : As shown in the figure, in $\triangle ABC$, D is the incenter, and the tangent line of the circumscribed circle of $\triangle BCD$ passing through D intersects AB at M and AC at N . Prove: $AM = AN$.



$$\frac{B-A}{M-N} \frac{B-D}{N-M} \frac{C-B}{B-A} \frac{C-D}{D-B} \frac{M-N}{B-D} \frac{D-C}{B-C} = 1$$