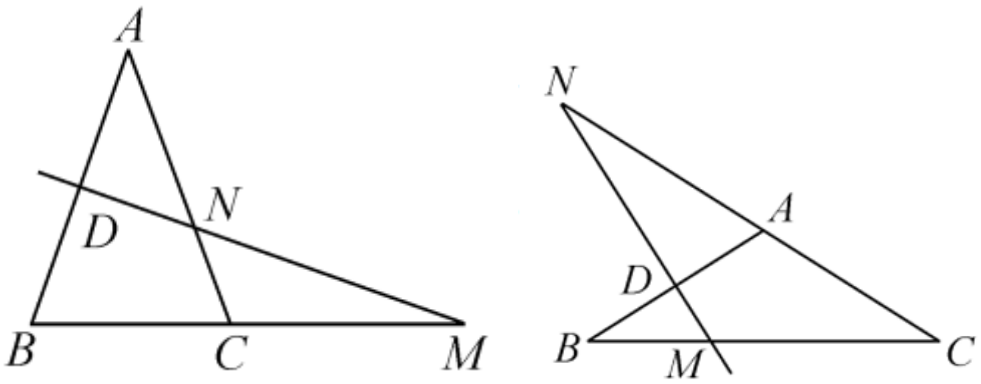

Example 1 36 : As shown in the figure, $\triangle ABC$, $AB=AC$, the perpendicular of AB intersects AB at D, BC at M, and AC at N. Prove that $2\angle BMN=\angle BAC$.

$$\frac{\left(\frac{C-B}{M-N}\right)^2}{\frac{A-C}{A-B}}=-\left(\frac{A-B}{M-N}\right)^2\frac{\frac{C-B}{C-A}}{\frac{B-A}{B-C}},$$