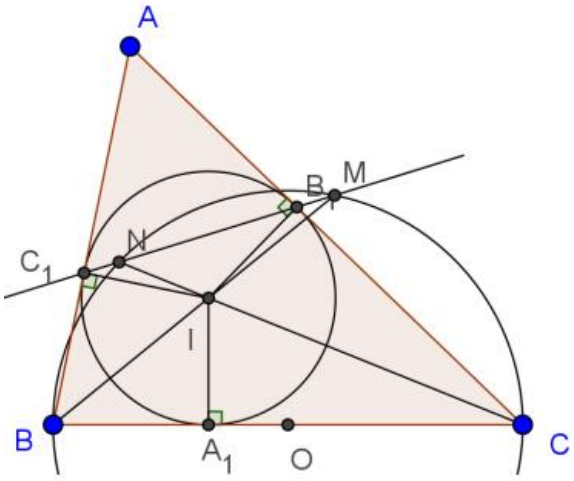

Example 157 : As shown in Figure 3, in △ABC, I is the center, extend BI and CI to intersect the circle with BC as the diameter at M and N, and prove: AI⊥MN.

$$\left(\frac{A-I}{M-N}\right)^2 \frac{\dfrac{C-N}{C-A}}{\dfrac{C-B}{C-N}}\left(\frac{\dfrac{M-N}{M-B}}{\dfrac{C-N}{C-B}}\right)^2 \frac{\left(\dfrac{M-B}{I-A}\right)^2}{\dfrac{C-B}{C-A}}=1,$$