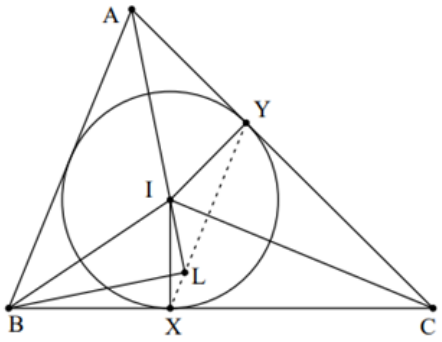

Example 73 : As shown in Figure 3, in $\triangle ABC$, the inscribed circle I cuts BC, AC at X, Y, and $BL \perp AI$ at L. Prove: X, L, Y are collinear.

$$\frac{X-L}{X-Y}=\left(\frac{L-X}{L-I}\frac{B-I}{B-X}\right)\frac{\frac{Y-C}{Y-X}}{\frac{I-C}{I-X}}\left(\frac{\frac{I-C}{I-B}}{\frac{A-C}{A-I}}\frac{B-X}{X-I}\right)\frac{L-I}{A-I}\frac{A-C}{Y-C}.$$

Description: used $\angle BIC=90^{\circ}+\frac{1}{2}\angle A$. See above question.