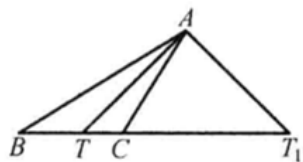


Example 181 : As shown in Figure 1, in $\triangle ABC$, $\angle ACB - \angle B = 90^\circ$, the bisectors of the inner and outer angles of $\angle BAC$ intersect BC and its extension line at T, T_1 , and prove : $AT = AT_1$.



$$\left(\frac{T-A}{B-C} \right)^2 \left(\frac{C-B}{B-A} \right)^2 \frac{A-C}{A-T} \frac{B-A}{A-T_1} = -1,$$