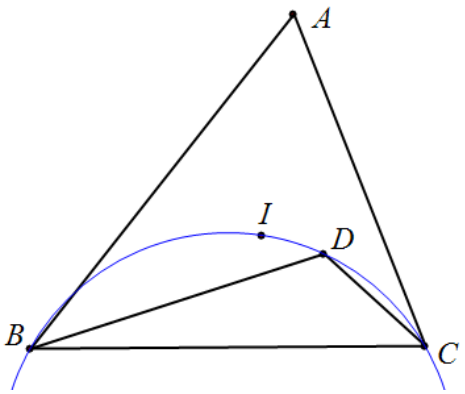

Example 63 : As shown in Figure 1, △in ABC, I is the inward point, point D satisfies ∠ABD = ∠BCD , ∠DBC = ∠DCA , to prove: B, C, D, and I share a circle.

$$\frac{B-I}{B-C}\frac{C-B}{C-I}\frac{B-A}{B-D}\frac{C-D}{C-A}=\left(\frac{D-C}{D-B}\frac{I-C}{I-B}\right)^2$$