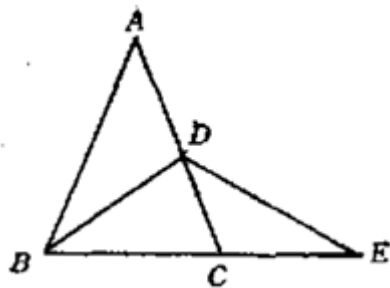


Example 112 : As shown in Figure 1, $\triangle ABC$, $AB = AC$, BD is the bisector of $\angle ABC$, E is a point on the extension line of side BC , and $BD = DE$. Prove : $CD = CE$.



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