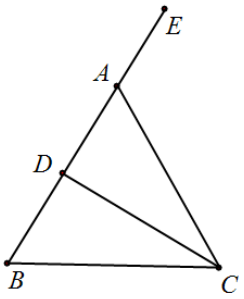

Example 123 : As shown in Figure 3, $\triangle in\, ABC$, AB = AC , extend BA to E , if the bisector of $\angle$ACB intersects AB at D , prove that $\angle CDE = \frac{3}{4}\angle$CAE .

$$\frac{\left(\frac{B-A}{D-C}\right)^4}{\left(\frac{B-A}{A-C}\right)^3}=\left(\frac{\frac{C-B}{C-D}}{\frac{C-D}{C-A}}\right)^2\frac{\frac{B-A}{B-C}}{\frac{C-B}{C-A}},$$