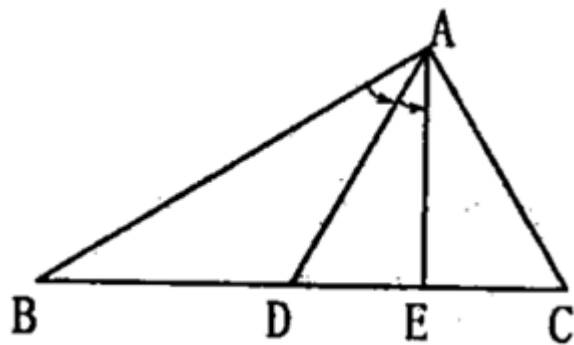


**Example 24 :** As shown in Figure 1, in  $\triangle ABC$ ,  $BC = 2 AC$ ,  $D$  is the midpoint of  $BC$ ,  $E$  is the midpoint of  $DC$ , to prove:  $\angle BAD = \angle DAE$ .



Proof: Let  $A=0$ , 
$$\frac{1}{2} \frac{\frac{C}{B+C}}{\frac{2}{B+C}} - \frac{\frac{B+3C}{4}}{\frac{2}{B+C}} + 1 = 0.$$

$$\frac{\frac{2}{B+C} - C}{2} - \frac{2}{B}$$