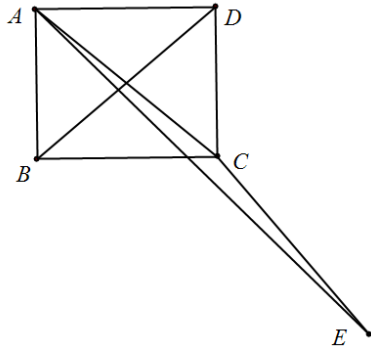


Example 1 2 : As shown in Figure 1, the quadrilateral $ABCD$ is a rectangle , $CE \perp BD$, AE is the bisector of $\angle BAD$, to prove: $CE = BD$.



Proof: Suppose $\frac{\frac{A-C}{E-A}}{E-C} = T$, $\frac{\frac{B-C}{A-E}}{A-B} = t_1$, $\frac{A+C-B-B}{C-E} = t_2$, $\frac{B-C}{A-B} = t_3$,

$$T = \frac{t_1(1-t_3^2)}{t_2 t_3}.$$

$$\frac{\frac{A-C}{E-A}}{E-C} = \frac{\frac{B-C}{A-E}}{A-B} \frac{\frac{A-C}{B-A}}{D-B} \frac{E-C}{B-A}.$$