

$$a/ \hat{A} = \frac{K}{\frac{3}{9}} = 3K$$

$$\hat{B} = \frac{K}{\frac{15}{90}} = 6K$$

$$\hat{C} = \frac{K}{\frac{1}{9}} = 9K$$

$$\hat{A} + \hat{B} + \hat{C} = 180^\circ$$

$$3K + 6K + 9K = 180^\circ$$

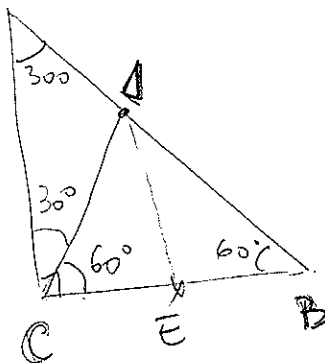
$$18K = 180^\circ \Rightarrow K = 10$$

$$\hat{A} = 3K = 30^\circ$$

$$\hat{B} = 6K = 60^\circ$$

$$\hat{C} = 9K = 90^\circ$$

A



$$b/ \textcircled{1} \text{ Dacă } \hat{BCA} = 90^\circ$$

$$\hat{BCA} = 90^\circ$$

$$\Rightarrow \hat{ACA} = 90^\circ - 60^\circ = 30^\circ$$

$$\text{dar } \hat{CAB} = 30^\circ$$

$$\Rightarrow \triangle ADC \text{ isoscel. (1)}$$

$$\textcircled{2} \text{ Cum } \hat{CDB} \equiv \hat{BCD} = 60^\circ \Rightarrow \triangle CDB \rightarrow \text{isoscel.}$$

$$\text{deci } CD \equiv DB$$

$$\text{dar } \hat{C} \equiv \hat{A} \text{ din rel. (1)}$$

$$\text{deci } \underline{DC} = \frac{1}{2} AB = \underline{2,5 \text{ cm.}}$$

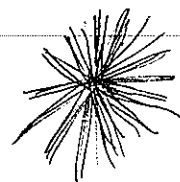
$$\textcircled{3} \text{ CE} \equiv \text{EB}$$

$$\text{dar } AD \equiv DB$$

$$\Rightarrow DE \text{ linie mijlocie în } \triangle ABC$$

$$\text{deci } DE \parallel AC$$

93



A