$A\Delta \perp BC$.

$\hat{B_1} \equiv \hat{B_2}$

ΔAMB isoscel.

$\Delta A\Delta C$ isoscel.

$A\Delta \perp BC \Rightarrow \Delta A\Delta C$ dreptunghic

dar $\Delta A\Delta C$ isoscel $\Rightarrow \hat{A_2} \equiv A\hat{C}B$ $\Big| \Rightarrow \hat{A_2} \equiv A\hat{C}B = \dfrac{180°-90°}{2}$

$\hat{A_2} \equiv A\hat{C}B = 45°$.

Şiu. $\Delta AB.m \rightarrow$ isoscel $\Rightarrow \hat{B_1} \equiv \hat{A_1}$

dar. $\hat{B_1} \equiv \hat{B_2}$ (BE bisectoare)

$A\Delta \perp BC \Rightarrow \Delta A\Delta B$ dreptunghic.

$\hat{B_1} + \hat{B_2} + \hat{A_1} + 90° = 180°$

$\hat{B_1} \equiv \hat{B_2} \equiv \hat{A_1}$

$3\hat{B_1} = 90° \Rightarrow \hat{B_1} = 30° \Rightarrow A\hat{B}\Delta = 30° \cdot 2 = \underline{60°}$.

$\underline{B\hat{A}C} = \hat{A_1} + \hat{A_2} = 30° + 45° = \underline{75°}$

$\hat{A_1} = 30°$

$\hat{A_2} = 45°$
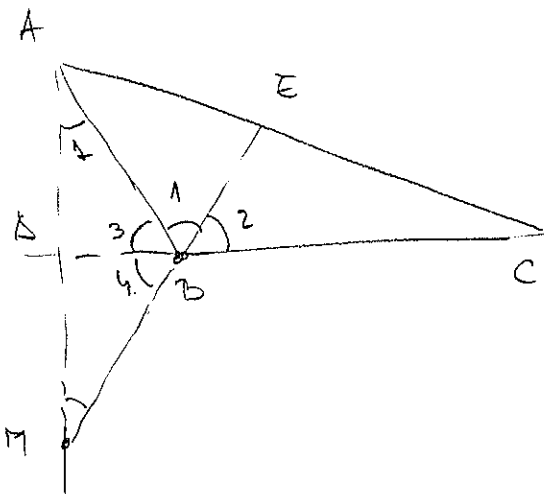
$\Delta A\Delta c \rightarrow$ isoscel şi dreptunghic

$\Rightarrow \underline{\Delta\hat{C}A \equiv \Delta\hat{A}c = 45°}$

$\Delta A\Delta m$. isoscel $\Rightarrow \hat{A_1} \equiv \hat{m}$.

$\hat{B_3} \equiv \hat{B_4}$

dar. $\hat{B_4} \equiv \hat{B_2}$ (unghiuri opuse la vârf)

$\hat{B_2} \equiv \hat{B_1}$ (BE $\rightarrow$ bisectoare)

$\hat{B_1} + \hat{B_2} + \hat{B_3} = 180° \Rightarrow$

$\hat{B_1} = \hat{B_2} = \hat{B_3} = 60° \Rightarrow A\hat{B}C = 120°$

$\hat{A_1} = 90° - \hat{B_3} = 30° \Rightarrow \underline{D\hat{A}c} = \Delta\hat{A}c - \hat{A_1} = 15°$

$A\hat{B}C = 2 \cdot \hat{B_1} = 2 \cdot 60° = \underline{120°}$