

PROBLEMA: N. 190 PAG. 205

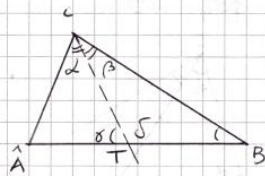
m° 190

DATI:  $\triangle ABC$  scaleno

$$\hat{A} = \frac{5}{8} \hat{B}$$

$$\hat{A} + \hat{B} = 104^\circ$$

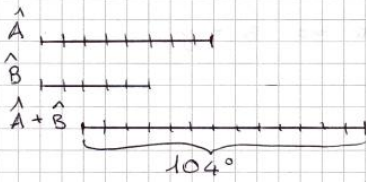
CT bisettrice



TROVA:  $\alpha, \beta, \gamma, \delta, \hat{A}, \hat{B}$

SOLUZIONE:

$$\alpha = \beta = \frac{\hat{C}}{2}$$



$$\text{M} \quad 104^\circ : 13 = 8^\circ$$

$$\hat{A} = 8 \times 8 = 64^\circ$$

$$\hat{B} = 8 \times 5 = 40^\circ$$

$$\hat{C} = 180^\circ - \hat{A} - \hat{B} = 180^\circ - 104^\circ = 76^\circ$$

$$\alpha = \beta = 76^\circ : 2 = 38^\circ$$

$$\gamma = 180^\circ - \hat{A} - \alpha = 180^\circ - 102^\circ = 78^\circ$$

$$\delta = 180^\circ - \gamma = 180^\circ - 78^\circ = 102^\circ$$

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Prog. 205 m. 192



Dati:  $\hat{A} = 2 \cdot \hat{C}$

$\hat{B} = 2 \cdot \hat{C}$

$AC = CB$

AH = altezza

AS = bisettrice

$\hat{A} = \hat{B}$

Trova  $x = ?$

$\alpha = \frac{\hat{A}}{2}$  perché AS è la bisettrice

$\alpha = \hat{C}$

ASB = isoscele

$$\frac{\alpha}{2} = \hat{C} : 2 = 36^\circ : 2 = 18^\circ$$

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

$$2 \cdot \hat{C} + 2 \cdot \hat{C} + \hat{C} = 180$$

$$5\hat{C} = 180 \rightarrow \hat{C} = 36^\circ, \hat{A} = 72^\circ$$