

S. 68/14 &

geg.: $a = 4,0 \text{ cm}$

ges: b

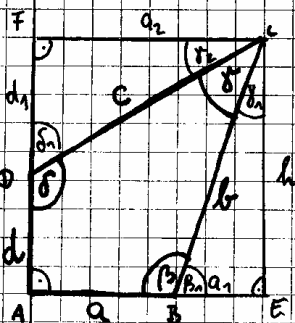
$c = 7,0 \text{ cm}$

d

$\beta = 108,0^\circ$

δ

$\gamma = 37,0^\circ$



$\delta = 360^\circ - 90^\circ - \beta - \gamma$

$\delta = 360^\circ - 90^\circ - 108^\circ - 37^\circ \quad \underline{\underline{\delta = 125^\circ}}$

$\delta_1 = 180^\circ - \delta \Rightarrow \underline{\underline{\delta_1 = 55^\circ}}$

$\beta_1 = 180^\circ - \beta \Rightarrow \underline{\underline{\beta_1 = 72^\circ}}$

$\gamma_1 = 90^\circ - \beta_1 \Rightarrow \underline{\underline{\gamma_1 = 18^\circ}}$

$\gamma_2 = 90^\circ - \gamma - \gamma_1 = 90^\circ - 37^\circ - 18^\circ$

$\underline{\underline{\gamma_2 = 35^\circ}}$

$\delta_1 = 90^\circ - \gamma_2 \Rightarrow \underline{\underline{\delta_1 = 55^\circ}}$

$(\delta = 180^\circ - \delta_1 = 125^\circ \text{ s.o.})$

$\cos \gamma_2 = \frac{a_2}{c} \Rightarrow a_2 = c \cdot \cos \gamma_2 = 7 \cdot \cos 35^\circ \quad \underline{\underline{a_2 = 5,73 \text{ cm}}}$

$a_1 = a_2 - a \quad \underline{\underline{a_1 = 1,73 \text{ cm}}}$

$\cos \beta_1 = \frac{a_1}{b} \Rightarrow b = \frac{a_1}{\cos \beta_1} = \frac{1,73}{\cos 72^\circ} \quad \underline{\underline{b = 5,61 \text{ cm}}}$

$h = \sqrt{b^2 - a_1^2} \Rightarrow \underline{\underline{h = 5,34 \text{ cm}}}$

$d_1 = \sqrt{c^2 - a_2^2} \quad \underline{\underline{d_1 = 4,02 \text{ cm}}}$

$d = h - d_1 \quad \underline{\underline{d = 1,32 \text{ cm}}}$