

geg.:  $a = 6 \text{ cm}$   
 $b = 9 \text{ cm}$   
 $d = 5 \text{ cm}$   
 $\beta = 72^\circ$

ges.:  $c$   
 $\delta$   
 $\gamma$

Lös.:

$\triangle EBC$

Ben. v.  $h$

$$\sin \beta = \frac{h}{b}$$

$$h = b \cdot \sin \beta$$

$$h = 9 \cdot \sin 72^\circ$$

$$\underline{h = 8,56 \text{ cm}}$$

Ben. v.  $a_1$

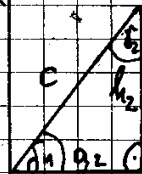
$$b^2 = h^2 + (a_1)^2$$

$$a_1 = \sqrt{b^2 - h^2}$$

$$\underline{a_1 = 2,78 \text{ cm}}$$

$$a_2 = a - a_1 = \underline{3,22 \text{ cm}}$$

$$\left( \alpha_1 = 90^\circ - \beta = \underline{18^\circ} \right)$$



$$h_2 = h - d$$

$$\underline{h_2 = 3,56 \text{ cm}}$$

Ben. c

$$c^2 = h_2^2 + a_2^2$$

$$c = \sqrt{h_2^2 + a_2^2}$$

$$\underline{c = 4,80 \text{ cm}}$$

Ben. v.  $\delta$

$$\tan \delta_1 = \frac{h_2}{a_2}$$

$$\tan \delta_1 = \frac{3,56}{3,22}$$

$$\delta_1 = 47,9^\circ$$

Ben. v.  $\gamma$

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

$$\underline{\underline{\gamma = 60,1^\circ}}$$

$$\underline{\underline{\delta = 90^\circ + \delta_1 = 137,9^\circ}}$$