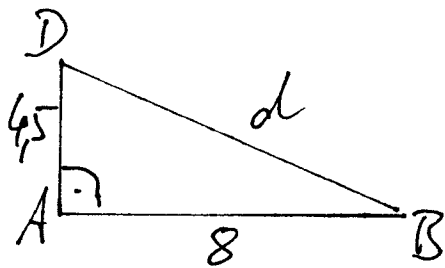


S. 64 (8)

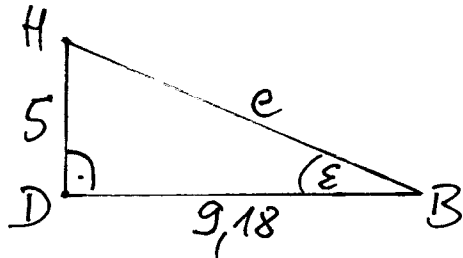
a)  $\triangle ABD$ :



$$d = \sqrt{4,5^2 + 8^2}$$

$$d = 9,18 \text{ cm}$$

$\triangle DBH$ :

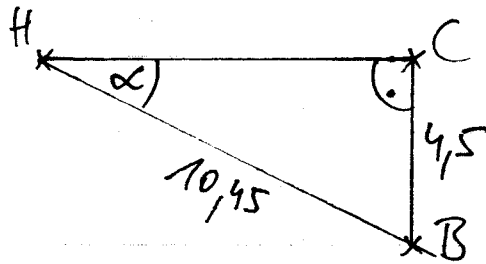


$$\tan \epsilon = \frac{5}{9,18}$$

$$\underline{\underline{\epsilon = 28,58^\circ}}$$

b)  $\triangle DBH$ :  $e = \sqrt{5^2 + 9,18^2} = 10,45 \text{ cm}$

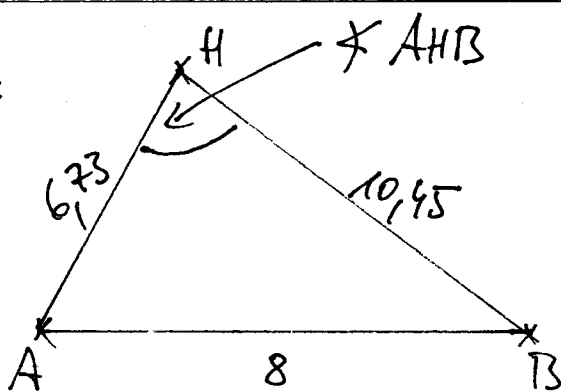
~~$\triangle BCH$~~   
 $\triangle BCH$



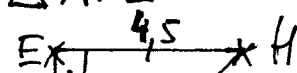
$$\sin \alpha = \frac{4,5}{10,45}$$

$$\underline{\underline{\alpha = 25,51^\circ}}$$

c)  ~~$\triangle BCH$~~   
 ~~$\triangle ABH$~~   
 $\triangle ABH$



$\triangle AHE$ :



$$\begin{aligned} AH &= \sqrt{4,5^2 + 5^2} \\ &= 6,73 \text{ cm} \end{aligned}$$

$$8^2 = 10,45^2 + 6,73^2 - 2 \cdot 10,45 \cdot 6,73 \cdot \cos \sphericalangle AHB$$

$$2 \cdot 10,45 \cdot 6,73 \cdot \cos \sphericalangle AHB = 10,45^2 + 6,73^2 - 8^2$$

$$\cos \sphericalangle AHB = \frac{10,45^2 + 6,73^2 - 8^2}{2 \cdot 10,45 \cdot 6,73}$$

$$\underline{\underline{\sphericalangle AHB = 49,96^\circ}}$$