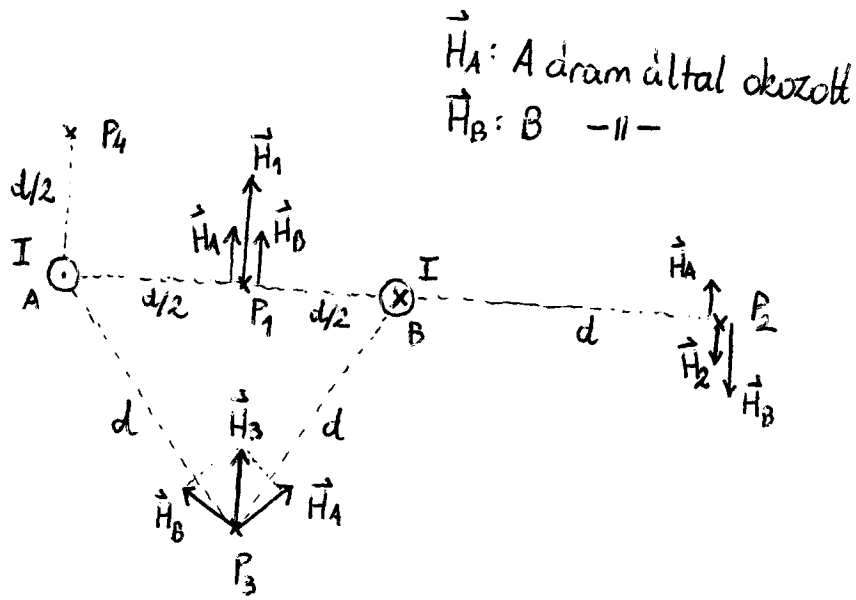


28.) $I = 20A$ $d = 20cm$ $P_1, P_2, P_3, P_4 \rightarrow \vec{H}_1 = ? \vec{H}_2 = ? \vec{H}_3 = ? \vec{H}_4 = ?$

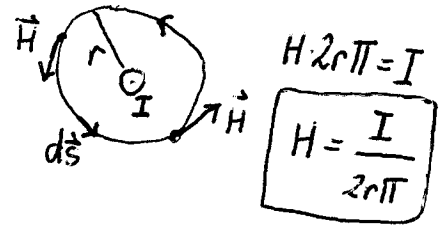


\vec{H}_A : A áram által okozott
 \vec{H}_B : B -"-

Ampère-féle gerj. tv.

$$\oint_C \vec{H} \cdot d\vec{s} = \sum I_i$$

Hosszú egyenes vezetőre:



$$H = \frac{I}{2r\pi}$$

szuperpozíció

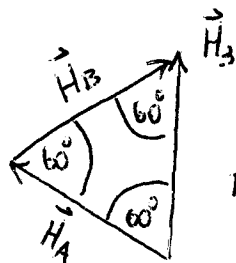
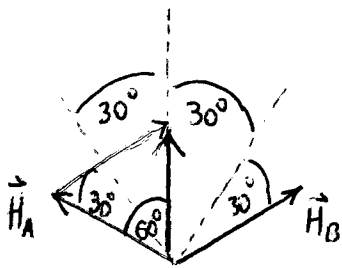
$$\vec{H}_i = \vec{H}_{A_i} + \vec{H}_{B_i}$$

P_1 : $\vec{H}_1 = \vec{H}_{A1} + \vec{H}_{B1}$ felfelé $H_1 = H_{A1} + H_{B1}$

$$H_1 = \frac{I}{2\pi d/2} + \frac{I}{2\pi d/2} = \dots$$

P_2 : lefelé $H_2 = H_{B2} - H_{A2} = \frac{I}{2\pi d} - \frac{I}{2\pi \cdot 2d} = \dots$

P_3 :



Tehát: $H_A = H_B = H_3$

felfelé

$$H_3 = H_A = \frac{I}{2\pi d} = \dots$$