Ampères lau:
$$H = \frac{1}{2} = \frac{1}{2\pi^{2}} = \frac{1}{4\pi} \cdot A/m$$

$$= 796 \text{ mA/m} \text{ (ediebhu)}$$

$$B = \mu H = 4\pi \cdot 10^{-7} \cdot H = \frac{4\pi \cdot 10^{-7}}{4\pi} = \frac{1}{10^{-7}} \cdot 10^{-6} \text{ Wb/m}^{2}$$

$$= 0,1 \cdot 10^{-6} \text{ Wb/m}^{2} \text{ (ediebhu)}$$

$$d\overline{F} = \overline{Ide} \times \overline{B}$$

$$\overline{B} = \begin{bmatrix} 15 \\ 15 \\ -10 \end{bmatrix} \xrightarrow{mWb} \overline{m^2}$$

$$(0,7,0) \stackrel{A}{\longrightarrow} \stackrel{B}{\longrightarrow} (7,0,1)$$

$$= B - A = \begin{bmatrix} 7 \\ 0 \\ 7 \end{bmatrix} - \begin{bmatrix} 0 \\ 7 \\ 1 \end{bmatrix}$$

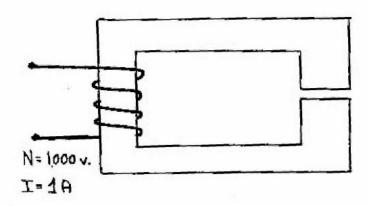
$$\frac{1}{2} \times \overline{B} = \begin{bmatrix} \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel{A} \\ \cancel{A} & \cancel$$

a)
$$\overline{F} = \begin{bmatrix} 55 \\ 85 \\ 210 \end{bmatrix} \text{ mN pr. A}$$

Da pulzprod. at ledning og fett ikke er 0, er de ikke orthogonale.

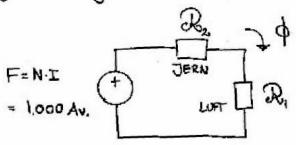
$$|\overline{B}| = 23,45$$
 $|\overline{B}| \cdot |\overline{e}| = 223,31$
 $|\overline{z}| = 9,94$ $|\overline{F}| = |\overline{z} \times \overline{B}| = 233,13$

Vinkten mellem dem er



l= 24 cm A= 9 cm² Ur= 3.000 Luftspatte: 0,5 mm

Magnetisk diagram



2) Reluktansen der jernkernen:

b) Relutetansen for luftspalten:

J Den magnetiste flux:

$$=\frac{1000}{473}\cdot10^{-3}=2,12$$
 mWb

Fluxen er lige stor i jernkeme og luftspalte.