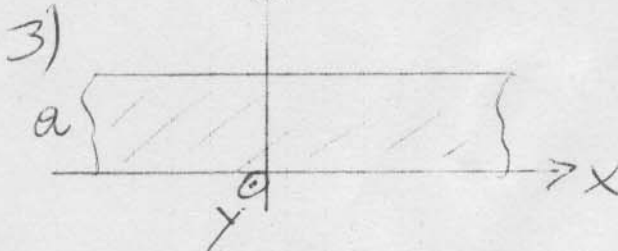
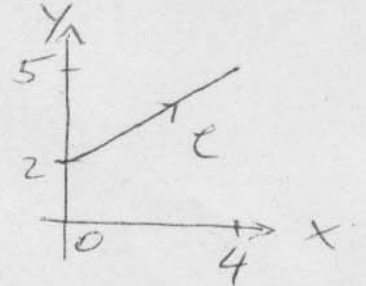


Elektrodynamik 05.10.05:

1) $\int_{dV} \vec{n} [\vec{F} \times (\vec{D} \times \vec{G}) - \vec{G} \times (\vec{D} \times \vec{F})] dA$
auf Volumintegral umformen

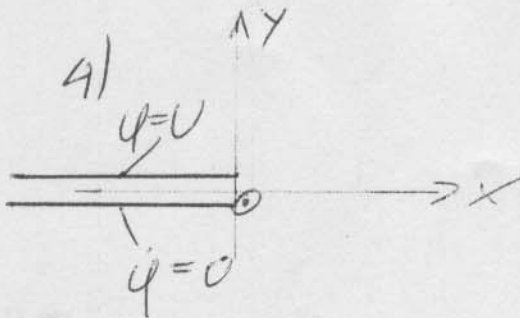
2) Berechnen Sie $\int \phi(\vec{r}) d\vec{r}$

$$\phi(\vec{r}) = x \vec{e}_x - 2y \vec{e}_y$$

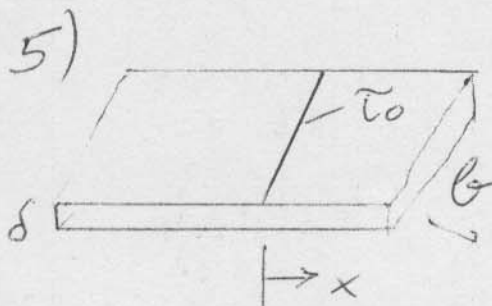


$$\vec{M} = \vec{e}_z \left(1 - \frac{z}{a}\right) M_0 \quad 0 \leq z \leq a$$

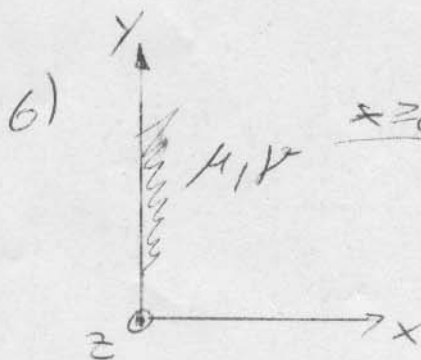
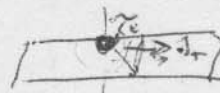
\vec{J}^f & $\vec{K}^f \Rightarrow ?$



φ & $\vec{E} \Rightarrow ?$



Bei $t=0$ wird Platte mit T_0 geladen.
Ladungs- & Stromverteilung \Rightarrow



$$x \geq 0) \vec{H}(x,t) = \text{Re} \{ \vec{H} \exp[-\frac{x}{\delta} + j(\omega t - \frac{x}{\delta})] \}$$

$$\delta = \sqrt{\frac{2}{\mu \sigma \omega}}$$

$$\vec{E}_f = \frac{\vec{E}_t}{\vec{H}_t} = ?$$