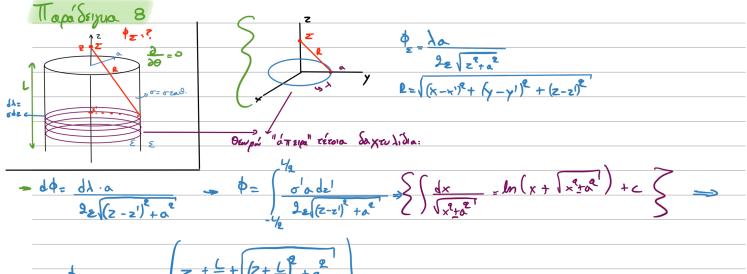


$$\frac{\vec{E} = 10000 = -A \hat{\theta}}{r \cos \theta}$$



$$\Rightarrow \phi = \frac{\sigma a}{2\epsilon} \ln \left( \frac{z + \frac{L}{2} + \left(z + \frac{L}{2}\right)^2 + \alpha}{z - \frac{L}{2} + \left(z - \frac{L}{2}\right)^2 + \alpha} \right)$$

$$\frac{1}{z} = -\frac{\partial \phi}{\partial z} = \frac{1}{z} =$$