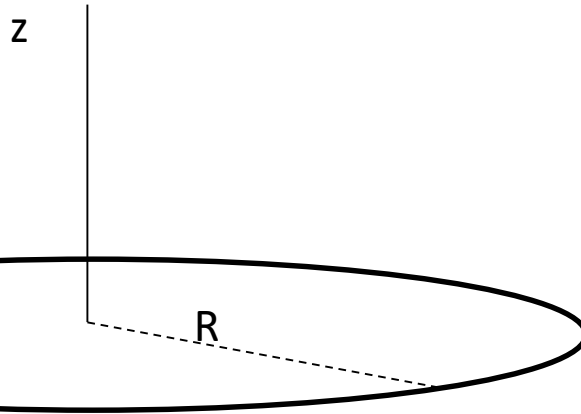
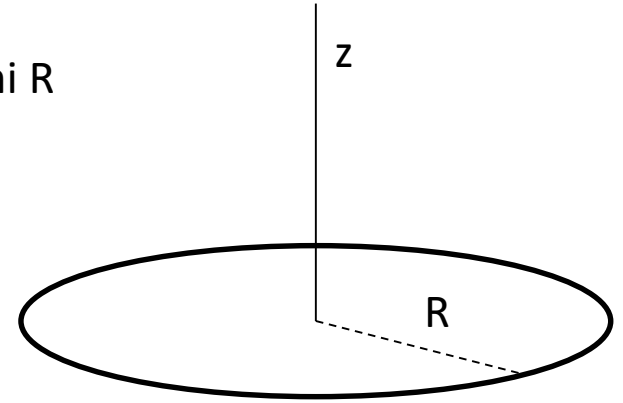


Enakomerno
nabita plošča

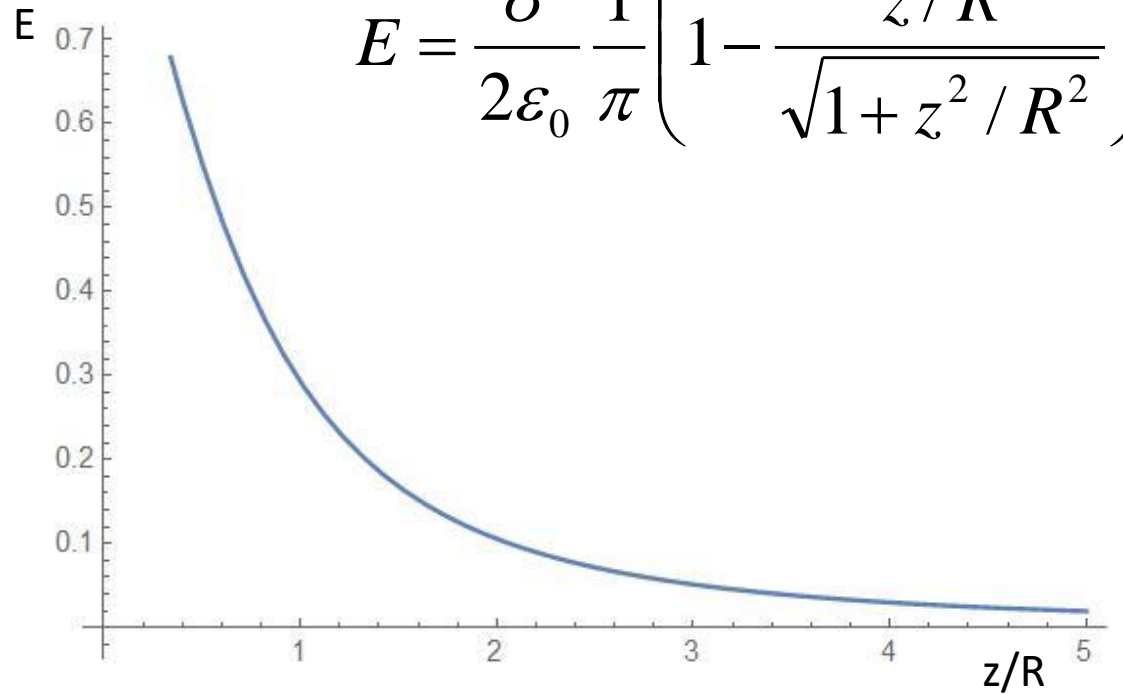


končni R

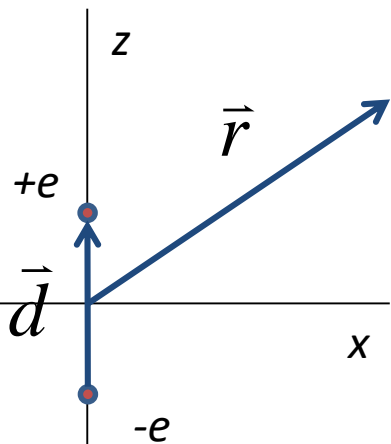


$$R \rightarrow \infty$$

$$E = \frac{\sigma}{2\epsilon_0}$$

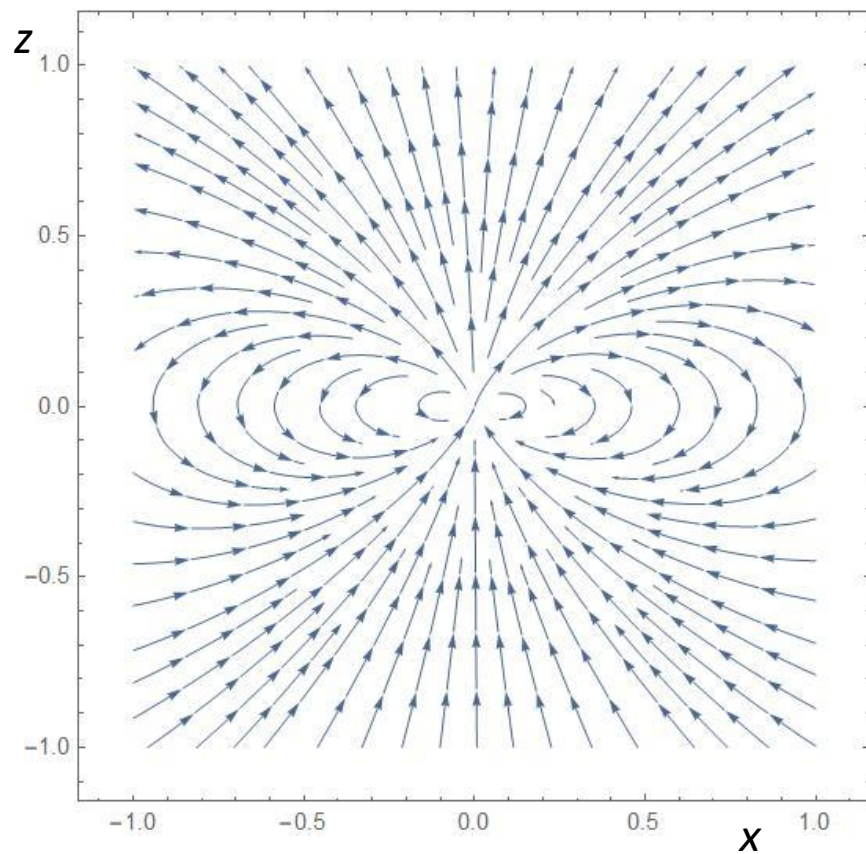
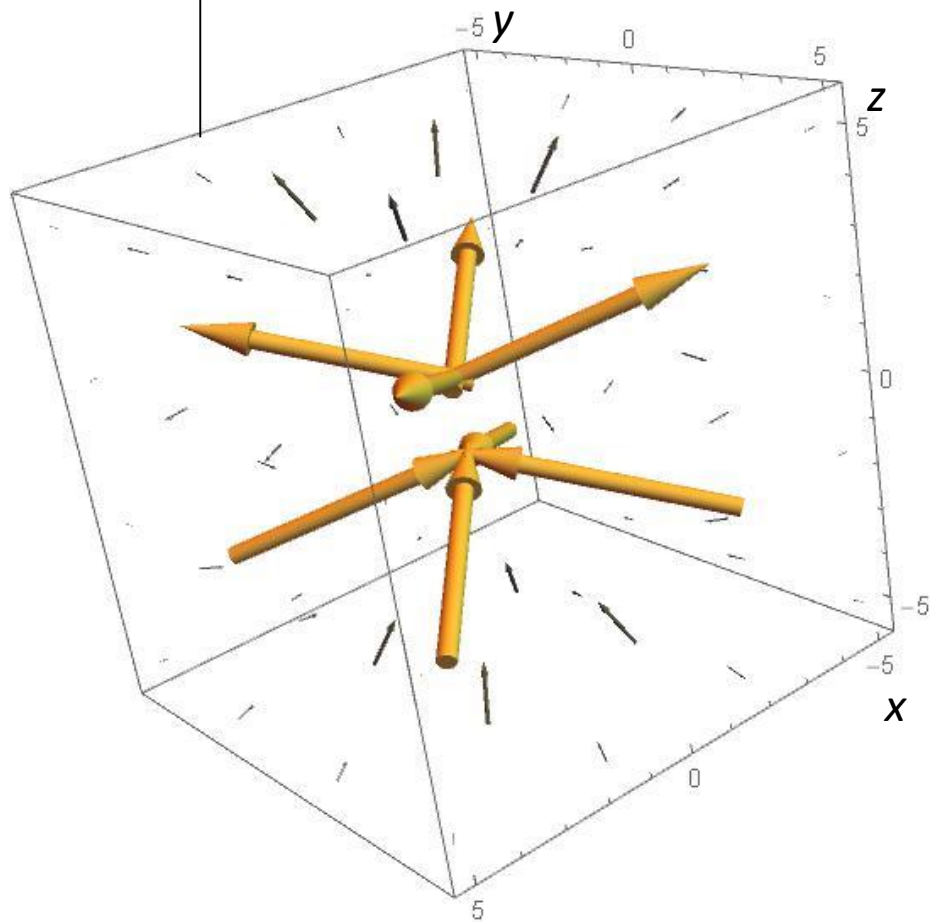


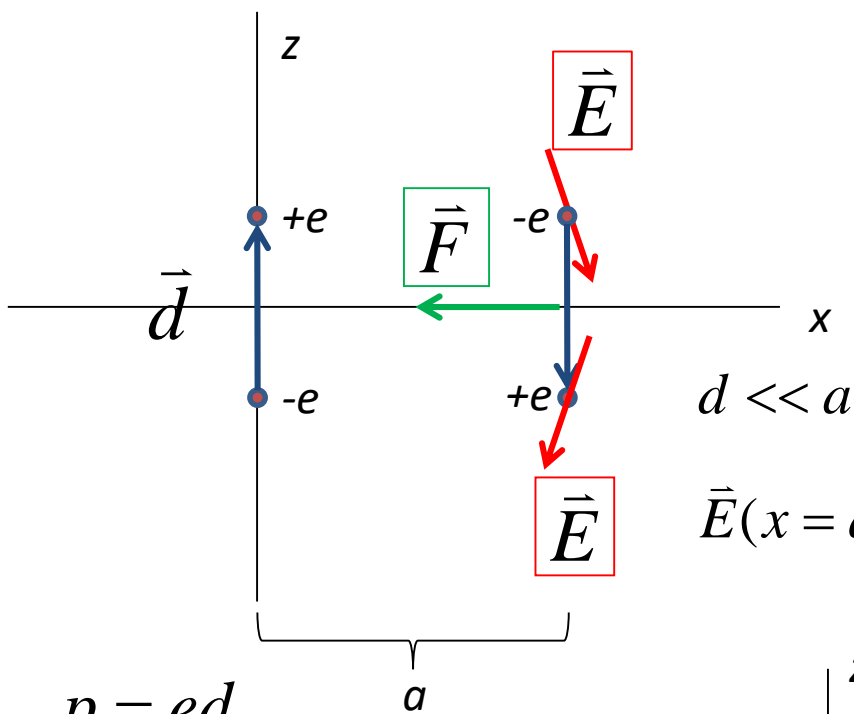
$$E = \frac{\sigma}{2\epsilon_0} \frac{1}{\pi} \left(1 - \frac{z/R}{\sqrt{1 + z^2/R^2}} \right)$$



$$d \ll r$$

$$\vec{E}(\vec{r}) \approx \frac{e}{4\pi\epsilon_0} \frac{1}{2} \frac{d}{r^5} (6xz, 6yz, 5z^2 - x^2 - y^2)$$

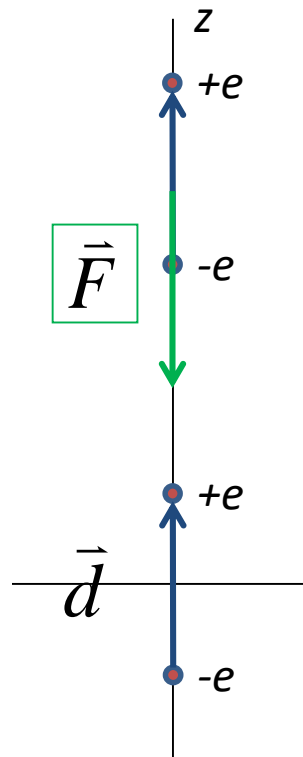




$$\vec{E}(x = a, y = 0, z = \pm \frac{d}{2}) \approx \frac{e}{8\pi\epsilon_0} \frac{d}{a^5} (\pm 3ad, 0, -a^2)$$

$$p = ed$$

$$F \propto \frac{p^2 d}{a^5}$$



$$d \ll a$$

$$\vec{E}(x = 0, y = 0, z = a \pm \frac{d}{2}) \approx$$

$$\approx \frac{e}{8\pi\epsilon_0} \frac{d}{a^5} (0, 0, 5(a^2 \pm ad))$$

$$F \propto \frac{p^2}{a^4}$$

