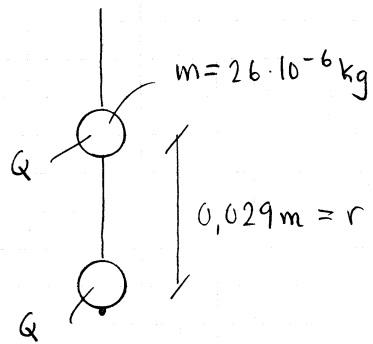
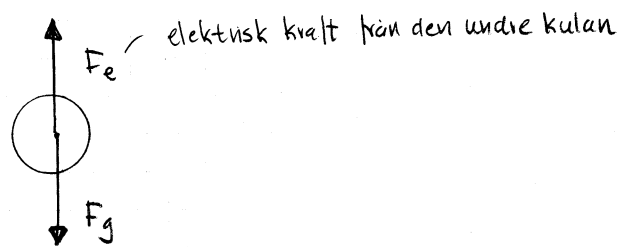


A2602-12



Frlägg den övre kulan:



Jämvikt ger

$$F_e = F_g$$

$$k \frac{Q Q}{r^2} = mg$$

$$Q^2 = \frac{mgr^2}{k}$$

$$Q = (\pm) \sqrt{\frac{mgr^2}{k}} = \sqrt{\frac{26 \cdot 10^{-6} \cdot 9,82 \cdot 0,029^2}{8,99 \cdot 10^9}} \text{ C} = 4,9 \cdot 10^{-9} \text{ C}$$

Svar: $4,9 \text{ nC}$