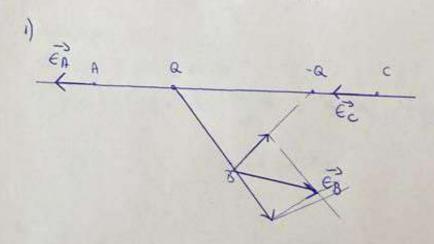
1/5

Examen Electratal



2)
$$m_{AR} = 0.1 h_{3}$$
 13 AR
 $2 = 13 \Rightarrow 13 \text{ e}^{-1} (\text{diction})$
 $13 \text{ p}^{+1} (\text{poton})$
 14 poton
 $15 \text{ p}^{-1} (\text{poton})$
 $15 \text{ p}^{-1} (\text{po$

$$= 30 \text{ cm} = 0.3 \text{ m}$$

$$= Q_{2} = 80 \text{ mC} = 80 \cdot 10^{-9} \text{ C}$$

$$|\vec{F}_{12}| = |\vec{F}_{12}| = |\vec{A}_{1}| \cdot \frac{Q_{1} \cdot Q_{2}}{d^{2}} = |\vec{A}_{1}| \cdot \frac{Q_{2}}{d^{2}} = |\vec{A}_{1}| \cdot \frac{Q_{3}}{d^{2}} = |\vec{A}_{1}| \cdot \frac{Q_$$

4.
$$C = A \cdot \frac{Q}{\Lambda^2} = 9.769 \cdot \frac{9070^{-9}}{2^{2} \cdot 10^{-2}} = \frac{40.5 \cdot 10^3}{2} \cdot \frac{N}{C}$$
 $Q = 90 \text{ mC} = 90 \cdot 10^{-9} \text{ C}$
 $d = h = 20 \text{ cm} = 2.10^{-1} \text{ m}$
 $20.25 \cdot 10^3 \text{ N} = 20.25 \cdot 10^3 \text{ N} = 20.2$

$$\overrightarrow{f_q} = \overrightarrow{f_{qa}} + \overrightarrow{F_{-laq}}$$

$$\overrightarrow{f_{qa}} = k \cdot \frac{aq}{|\overrightarrow{Qc}|^3} \cdot \overrightarrow{Oc}$$

$$\overrightarrow{F_{-laq}} = k \cdot \frac{-4aq}{|\overrightarrow{Qc}|^3} \cdot \overrightarrow{Ac}$$

$$\vec{x}_{q} = \vec{x}_{qa} + \vec{x}_{qa} + \vec{x}_{qa}$$
 $\vec{x}_{q} = (\vec{x}_{qa} + \vec{x}_{qa})^{c}$

| Fa|2 = | Faa|2 + | F-129| + 2 Faa Faq | = (| Fga| + | F-4aq | + 2| Fga| | F-4aq | cos o" IFQ | = ([FQQ + | F-409 |] = | FQQ | + | F-409 | | Fqa | = & . 9.a 17-402) = h. 2.-40 $|\overrightarrow{F}_{Q}| = \left(\frac{q \cdot \hat{Q}}{1}\right) \left(\frac{1}{x\delta} - \frac{4}{(x-x_0)^2}\right) = 0$ $\frac{1}{X_0}$ = $\frac{4}{(x-x_0)^2}$ = 0 (x-x)2 - 4x02 =0 $-3x^{2} - 2x_{0}q + q^{2} = 0 = 3$ $x_{0} = \frac{2a + 4q}{6} = \frac{q}{3}$ le) Fq = Fag + F-109 $\frac{1}{10} = 1 \cdot \frac{-100}{03} \cdot 0^{-2} + 1 \cdot \frac{00}{(20)^3} \cdot 20^{-2}$ Fq = & Q9 (-497 + Q7)

Vistagram Sebatian

$$\vec{+}_{q} - \hat{k} \frac{qq}{a^{3}} \cdot \frac{-15}{4} \vec{p} = \vec{+}_{qx}$$

$$|\vec{+}_{q}| = \hat{k} - \frac{15}{4} \frac{qq}{a^{3}} N$$

$$\frac{1}{4} = \frac{1}{4} + \frac{1$$

$$\frac{1}{\sqrt{1 + 2}} = 2 2 \left(\left(\frac{1}{(x^{2} + a^{2})^{2}} + \frac{2x}{(x^{2} + a^{2})^{2}} + \left(\frac{2}{(x^{2} + a^{2})^{2}} + \frac{2x}{(x^{2} +$$

Virtageon Sebestion

b) Doco soriana - a dim B dereine positivo observorm intertru
co dim course simetrus alor dous punet si à sola de ox ri a
soriane electrica sodo co €py dereine mul, ist €px derine mai
more.

++ Resping sitel incôt sormers

A(e,a)

A(e,a)

EAP

EPA