

 $\rightarrow \times (m)$

$$F_{12} = F_{11} = K_0 \frac{|q_1| |q_2|}{T^2}$$

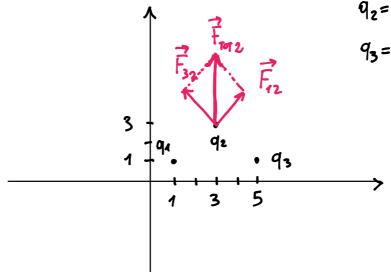
R = distanse he le conche = 2VZ

$$F_{12} = F_{24} = K_0 \frac{16}{8} = 2 K_0$$
 (NON SCRIVENDO LE C. BI MISURA)

$$q_4 = 4 C (1,1)$$

$$q_2 = 4$$
 (3,3)

$$q_3 = 4C$$
 (5,1)



Colcolians la forsa totale (elethica) su 92.

 q_2 risente della forsa bornto a q_1 sommats a quella darnte a q_3 $\vec{F}_{ror2} = \vec{F}_{12} + \vec{F}_{32}$

SE USO LE COMPONENTI CARTESIANE

$$\vec{F}_{12} = (\vec{v}_2 K_0, \vec{v}_2 K_0)$$
 $\vec{F}_{32} = (-\vec{v}_2 K_0, \vec{v}_2 K_0)$

$$\vec{F}_{\text{ToT}_{2}} = \vec{F}_{12} + \vec{F}_{32} = (\sqrt{2} \, \text{K}_{\circ} - \sqrt{2} \, \text{K}_{\circ}, \sqrt{2} \, \text{K}_{\circ} + \sqrt{2} \, \text{K}_{\circ}) =$$

$$= (0, 2\sqrt{2} \, \text{K}_{\circ}) \longrightarrow \vec{F}_{\text{ToT}_{2}} = \sqrt{0^{2} + (2\sqrt{2} \, \text{K}_{\circ})^{2}} = 2\sqrt{2} \, \text{K}_{\circ}$$

SUCCEDE F₁₃ = (...., 0) F23=F32= 2K F23 = (J2 Ko, - V2 Ko) $F_{43} = k_o \frac{|q_4||q_3|}{\pi_{43}^2} = k_o \frac{16}{4^2} = k_o$ $7 F_{43} = (k_o, o)$ $\vec{F}_{707_3} = \vec{F}_{23} + \vec{F}_{43} = (\sqrt{2} k_0 + K_0, -\sqrt{2} K_0) = (1+\sqrt{2})k_0, -\sqrt{2} k_0$ F_{ToT3} = 7/[(1+ \(\mathbf{I}_{\oldsymbol{\infty}}\) \(k_{\oldsymbol{\infty}}\)^2 + [-\(\mathbf{I}_{\oldsymbol{\infty}}\) \(k_{\oldsymbol{\infty}}\)^2 + [-\(\mathbf{I}_{\oldsymbol{\infty}}\) \(k_{\oldsymbol{\infty}}\)^2 + 2 $= K_0 \sqrt{1 + 2 + 2\sqrt{2} + 2} = \left[K_0 \sqrt{5 + 2\sqrt{2}} \right] \sqrt{a + \sqrt{b}} = \sqrt{\frac{a + \sqrt{a^2 - b}}{2}} + \sqrt{\frac{a - \sqrt{a^2 - b}}{2}}.$ 7 5 + 2 1/2 = 7 5 + 1/8 25-8=17 che son i un quadrets perfetto!