

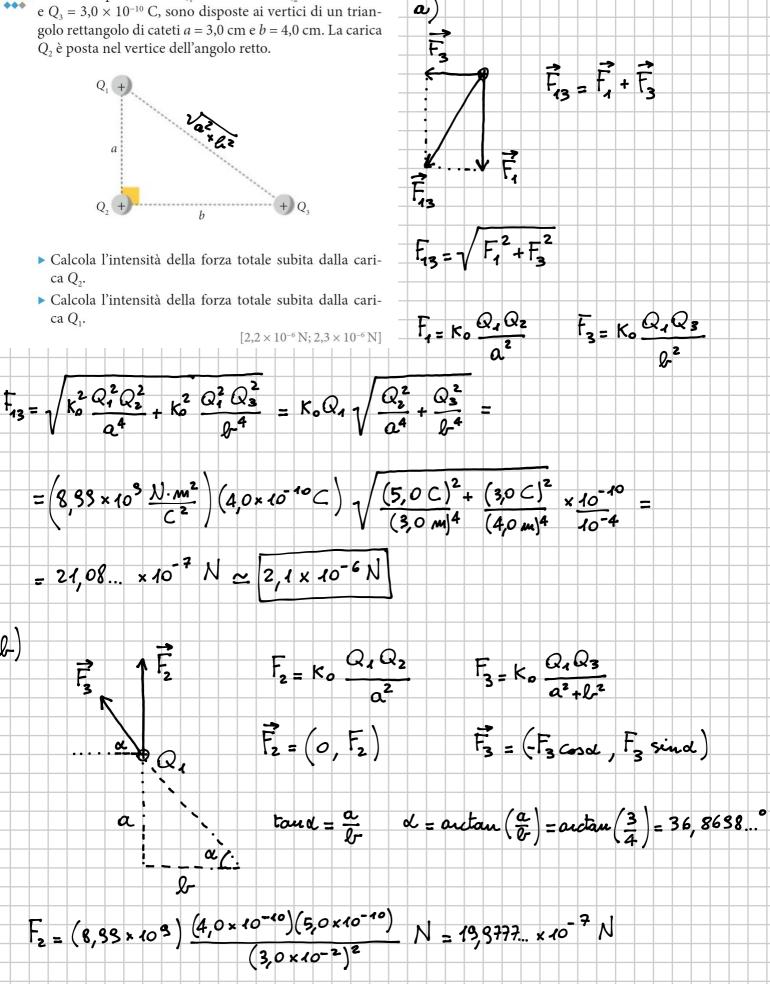
- ▶ Calcola l'intensità della forza totale subita dalla carica Q_2 .
- ▶ Calcola l'intensità della forza totale subita dalla carica Q_1 . $[2,2 \times 10^{-6} \text{ N}; 2,3 \times 10^{-6} \text{ N}]$

 $\vec{F}_2 = (o, F_2)$

 $F_{3} = (8,39 \times 10^{3}) \frac{(4.0 \times 10^{-10})(3,0 \times 10^{-10})}{(5,0 \times 10^{-2})^{2}} N = 4,3152 \times 10^{-7} N$

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$$\vec{F}_{23} = (0, F_{2}) \qquad \vec{F}_{3} = (F_{3} \cos \alpha, F_{2} + F_{3} \sin \alpha) = (-4, 3152 \cdot \cos (36, 8638...^{\circ}) \times 10^{-7} \, \text{N}, 19, 977... \times 10^{-7} \, \text{N} + 4, 3152 \cdot \sin (36, 8638...^{\circ}) \times 10^{-7} \, \text{N} = (-3, 452164... \times 10^{-7} \, \text{N}, 22, 566114... \times 10^{-7} \, \text{N})$$

$$\vec{F}_{23} = \sqrt{(-3, 452164...)^{2} + (22, 566114...)^{2}} \times 10^{-7} \, \text{N} = 22, 928... \times 10^{-7} \, \text{N}$$

$$\approx (2, 3 \times 10^{-6} \, \text{N})$$