

Lei de Coulomb

Prof. Jadoski
Física

$$F = k \frac{|q_1 q_2|}{r^2}$$

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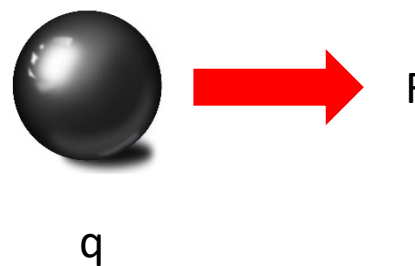
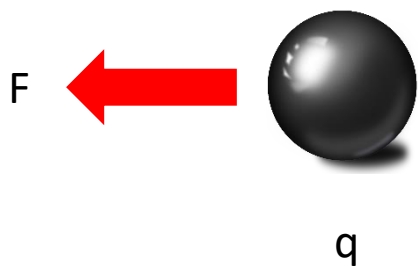
q



q

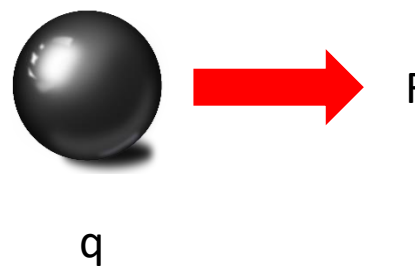
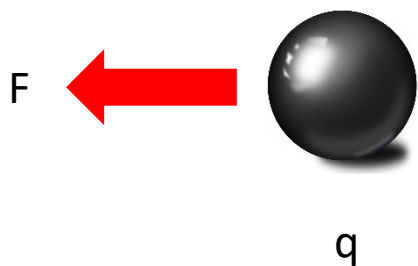
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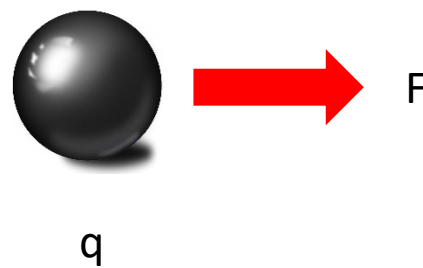
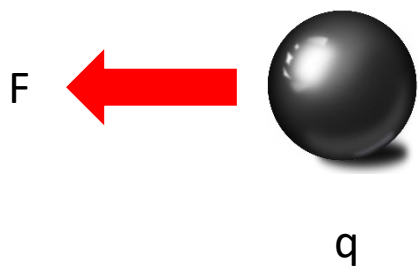
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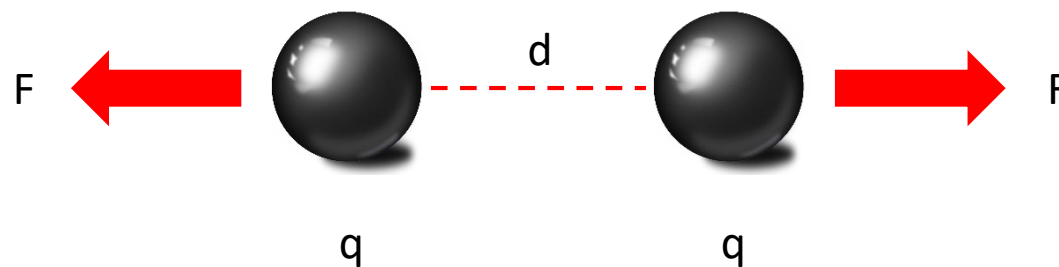
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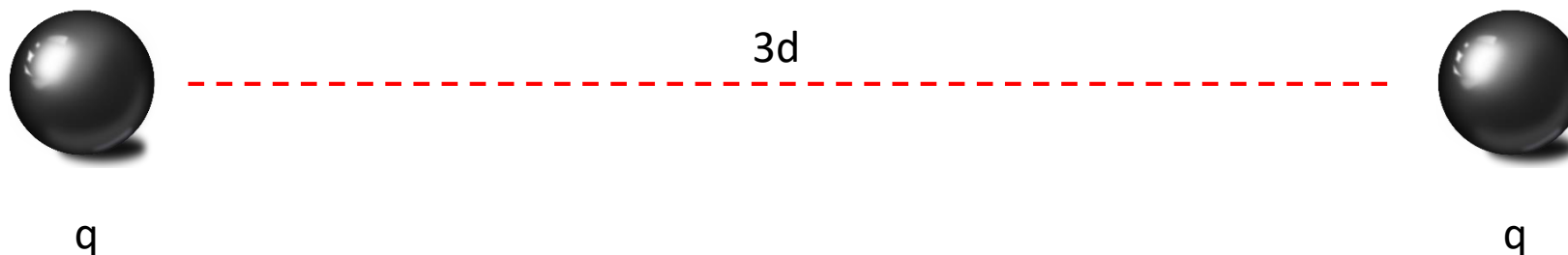
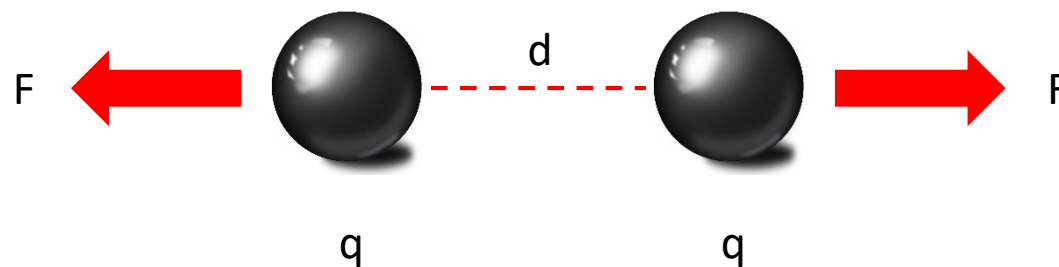
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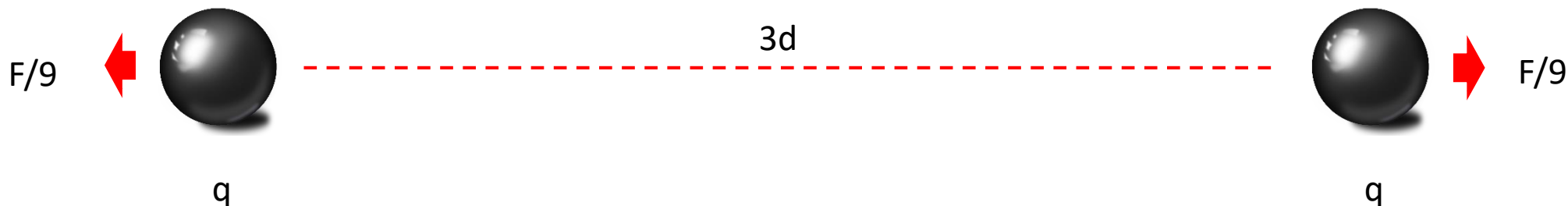
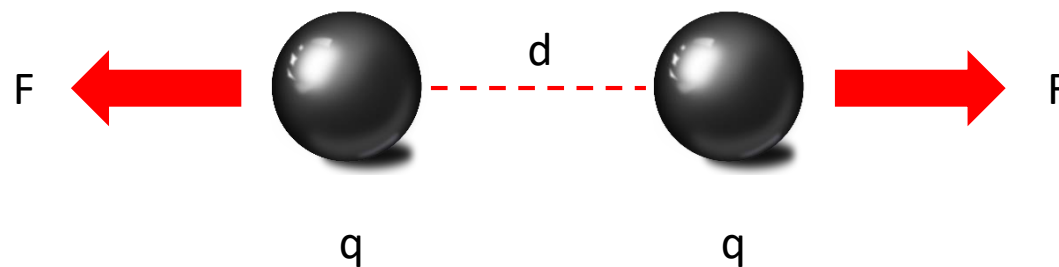
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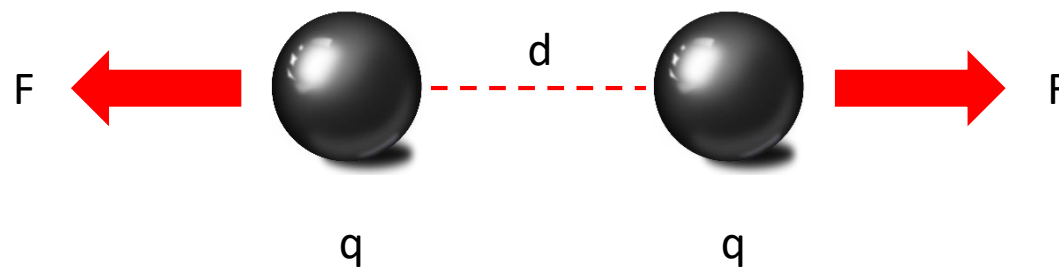
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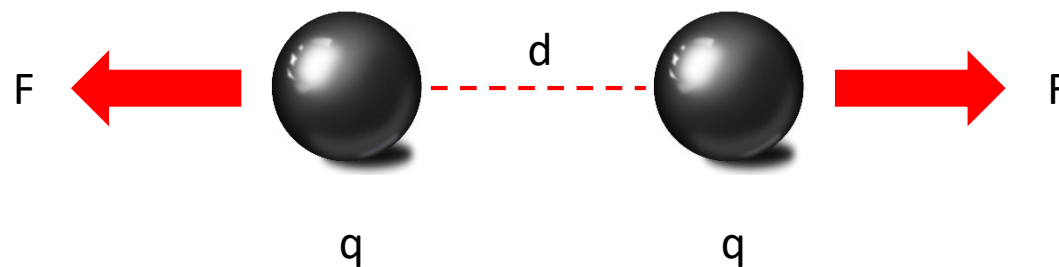
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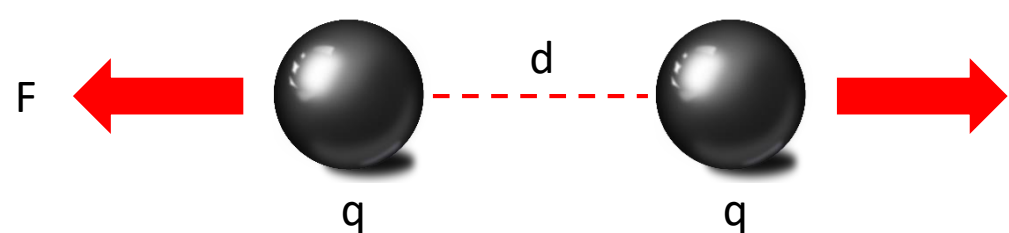
Lei de Coulomb

$$F = k \frac{|q_1 q_2|}{r^2}$$



$$K = 9 \cdot 10^9 \frac{N \cdot m^2}{C^2}$$

Lei de Coulomb



The diagram shows two black spheres representing point charges, each labeled with the letter 'q'. A horizontal dashed red line connects the centers of the two spheres and is labeled with the letter 'd'. From the center of the left sphere, a thick red arrow labeled 'F' points to the left. From the center of the right sphere, a thick red arrow labeled 'F' points to the right.

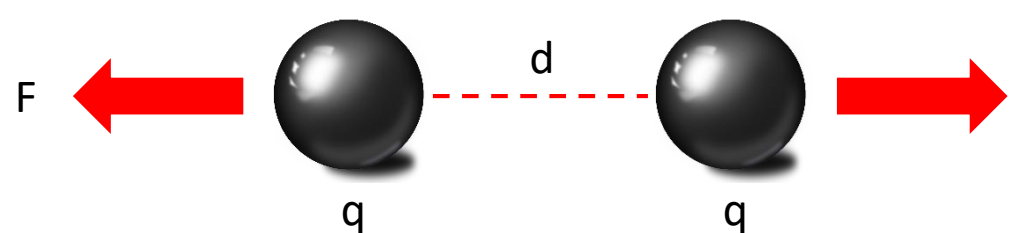
$$F = k \frac{|q_1 q_2|}{r^2}$$

duplicar a carga Q1

triplicar a carga Q2

triplicar a distância

Lei de Coulomb



The diagram shows two black spheres representing charges, each labeled with the letter 'q'. A horizontal dashed red line connects the centers of the two spheres, with the letter 'd' positioned above it to indicate the distance between them. From the left sphere, a thick red arrow labeled 'F' points to the left. From the right sphere, a thick red arrow labeled 'F' points to the right.

$$F = k \frac{|q_1 q_2|}{r^2}$$

duplicar a carga Q1

$$F \propto q_1 \cdot q_2$$

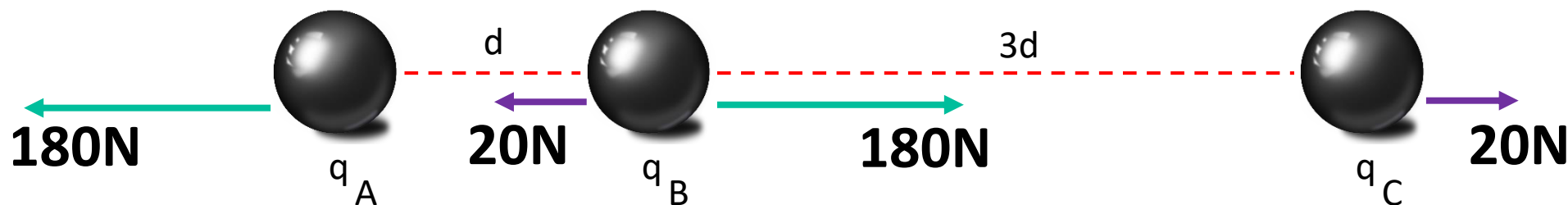
triplicar a carga Q2

$$F \propto q_1 \cdot q_2$$

triplicar a distância

$$F \propto \frac{1}{d^2}$$

Lei de Coulomb



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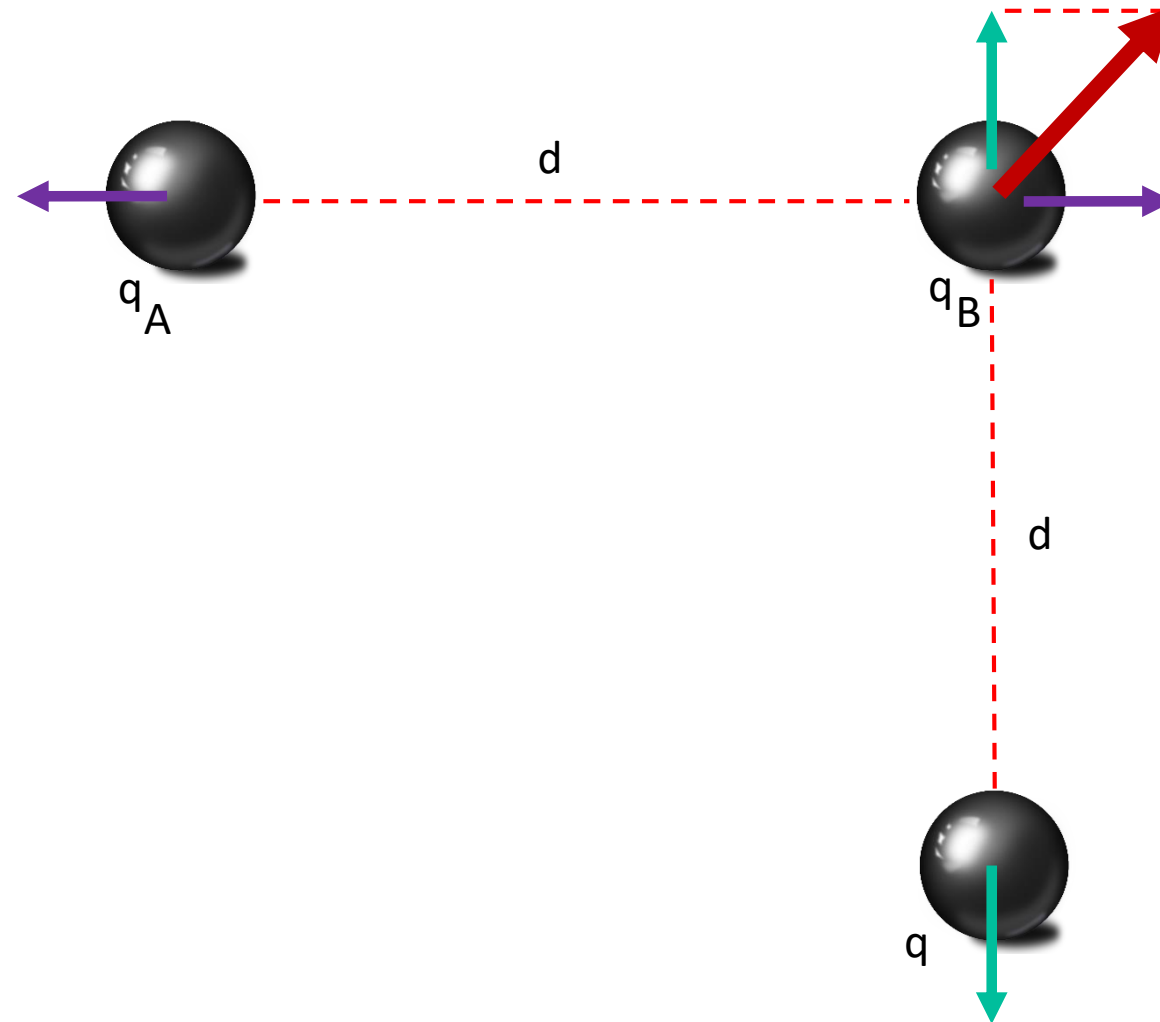
Se $F_{AB} = 180\text{N}$, quanto vale a Força resultante em B?

$$F_{BC} = \frac{180}{9}$$

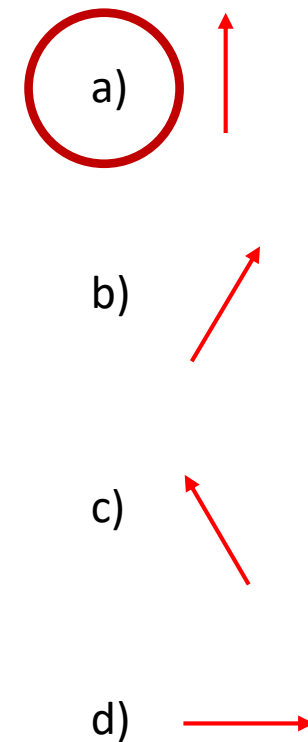
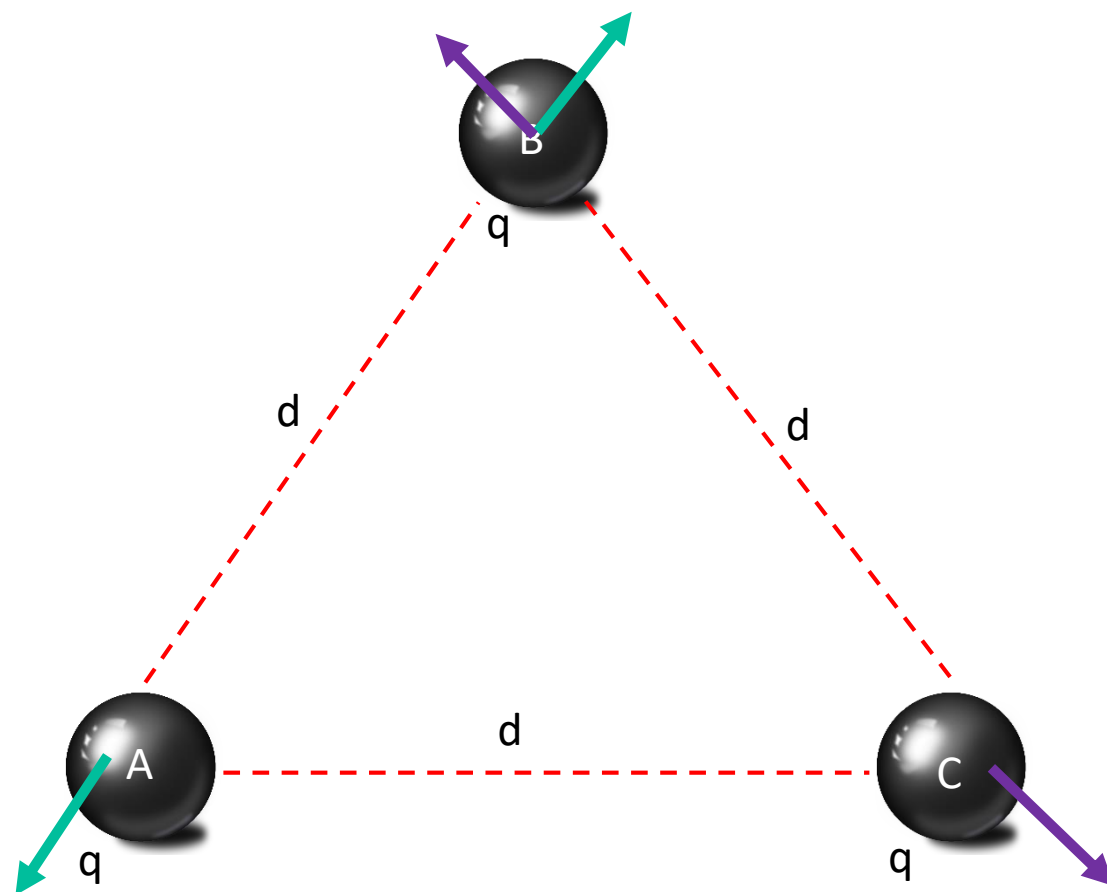
$$F_{BC} = 20\text{N}$$

$$F_R = 160\text{N}$$

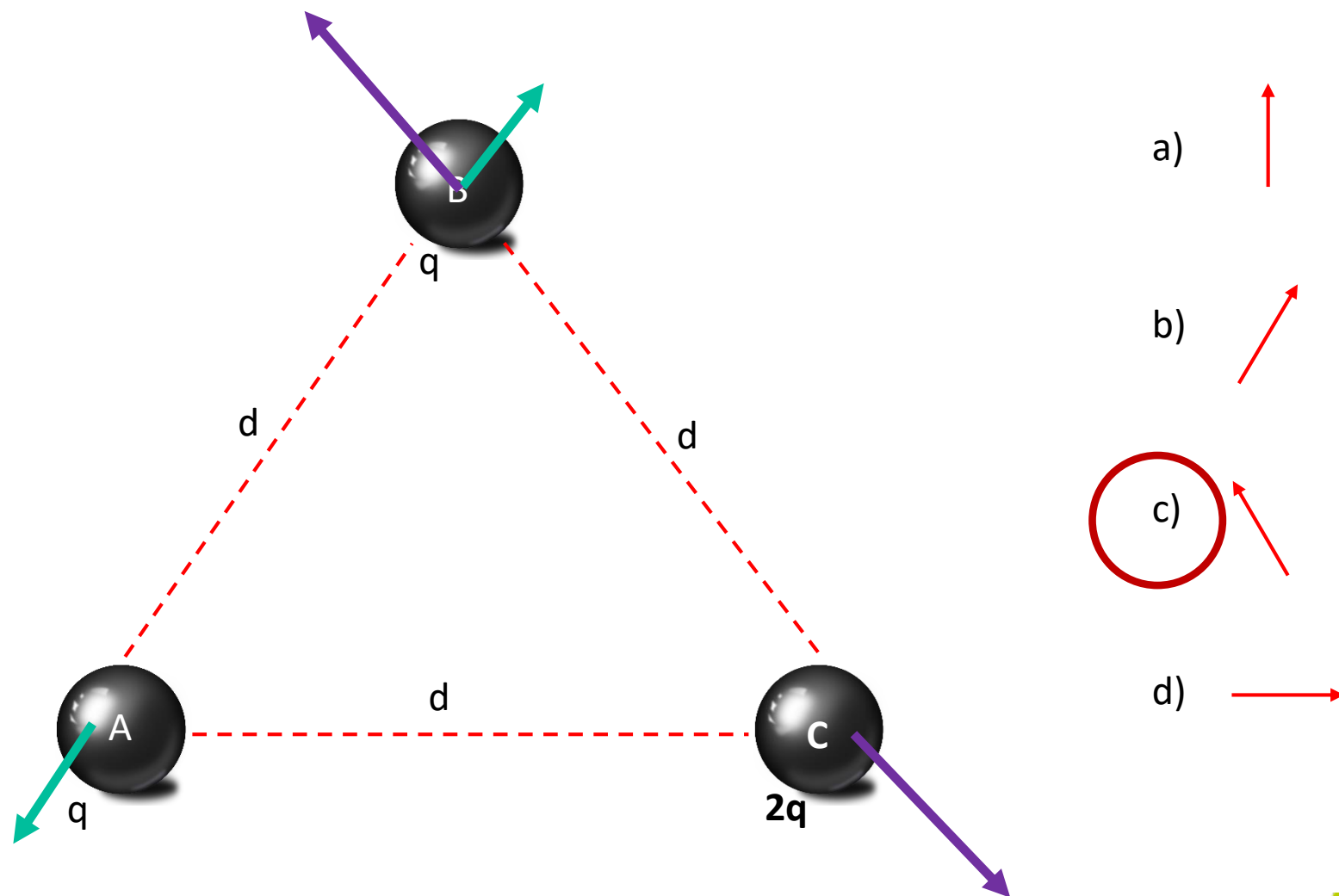
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