

electric charge -

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3 factors affecting the magnitude of the force between two charged objects:
_____ on objects, _____ between objects, & _____ separating them

Coulomb's Law -

Problem Set #1 (1-4) *(on back)*

Example- What is the electrostatic force between two objects, $+13 \mu\text{C}$ and $-22 \mu\text{C}$, which are 0.055 m apart?

If both charges (q_1 & q_2) are +, the sign of F is _____

If both charges (q_1 & q_2) are -, the sign of F is _____

If both charges have the same sign, they will _____.

+ F_{el} means objects _____.

If q_1 is + and q_2 is - , what will be the sign of F? _____

- F_{el} means objects _____.

Problem Set #2 (1-3) *(on back or your own paper)*

Coulomb's Law is similar to _____ Law of _____.

Similarities:

Differences:

Both electric and gravitational forces are _____ forces because objects do not have to _____ to be subjected to the force.

Drawing electric fields-

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-

+ charge sphere

stronger + charge

weak - sphere



+ and - spheres

two + spheres



- All charge lies on _____
- Electric field inside _____

What part of a car protects you from lightning? _____ Explain.

Show What You Know (on back or your own paper)