Electricity

Zovoeth Law of Elec.

Electris Charge exists.

7
Proton electron

9 -> "small"

9 proton electron

() " large"

St ont Contout. C

$$q = \frac{e}{1.602 \times 10^{-19}} C_{=+e}$$
 $q = -1.602 \times 10^{-19} C_{=-e}$

$$9_{e} = -1.602 \times 10^{-19} C = -e$$

$$9,$$
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 $9,$
 $8,$
 $9,$
 $8,$
 $9,$
 $1F_{E}| = R_{E} \frac{9, 82}{r^{2}}$
 $R_{E} = 8.99 \times 10^{4} N \cdot m^{2}$
 C^{2}
 C^{2}
 C^{2}

$$F_{\varepsilon}$$

$$g_{1}$$

$$g_{2}$$

Ohe Law:

$$|\vec{F}_{e}| = |\mathbf{z}_{e}| \frac{|\mathbf{g}_{1}||\mathbf{g}_{2}|}{|\mathbf{r}^{2}|}$$

Opposites attoot, likes repel"

| Fe | = | LE . [87] Be | = (8 99 × 109) (1.602 × 10-19 × 1.602 × 10-19)

$$|F_{G}| = G \frac{m_{p} Me}{r^{2}}$$

$$= (6.67 \times 10^{-11})(1.67 \times 10^{-27}).$$

$$(9.11 \times 10^{-31} \text{ b})$$

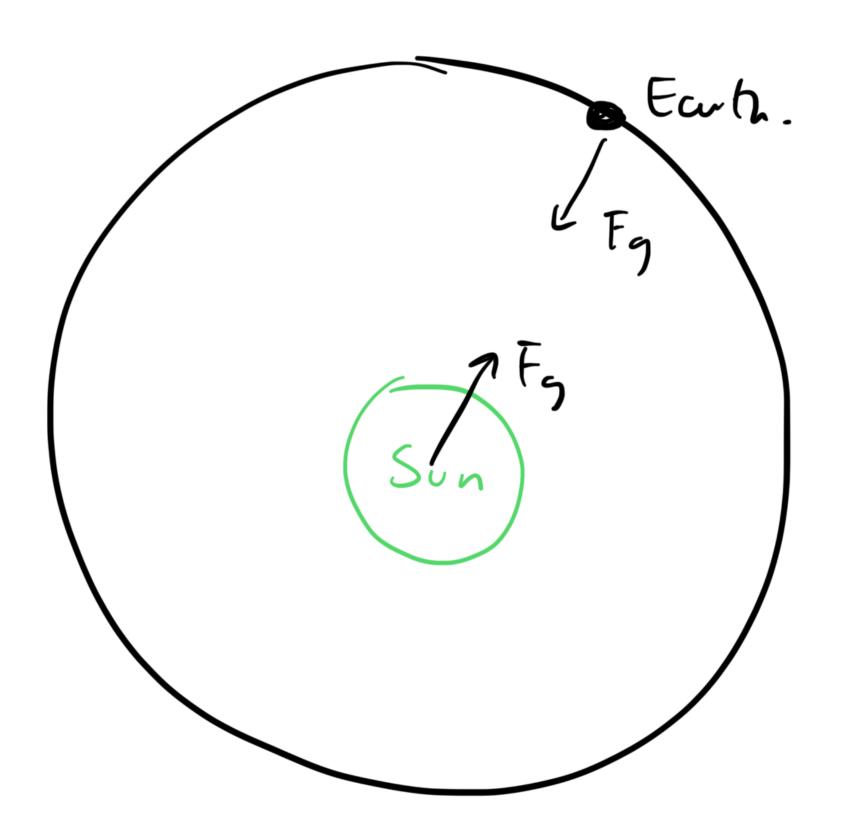
$$(.529 \times 10^{-10})^{2}$$

 $= 3.62 \times 10^{-47} N$

F 1 5 011 .. - Q

 $\frac{11}{15} = \frac{8.24 \times 10^{-8} \times 10^{-10}}{3.62 \times 10^{-47} \times 10^{-39}}$ $= 2.27 \times 10^{-39}$

In problems onthe electricity, we often I ghove growthy!

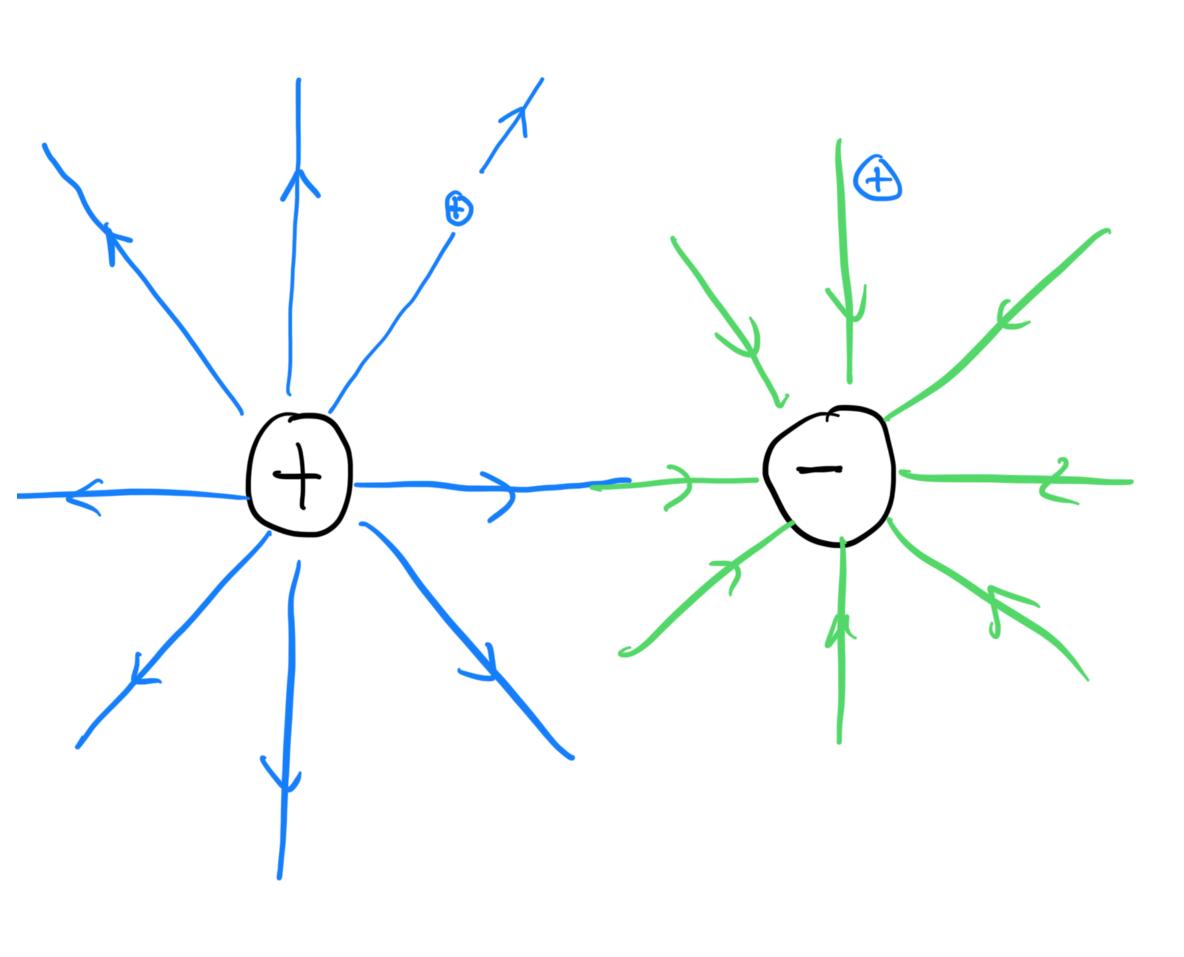


Acceleration Field:

19p1/3e1 1 El = Re 1891

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Fidd Hodel of Fores. J I Saac Nouton, Rene Deslates, Robert Hooke, "Action at a Distoure" grænt atruel Di old



Electo Static Plates.

Chaire Pomps' Battery: Betteves pur dunge form the negative toward to the positive termest.

A a g St

g enereted ber Sone chang distribution. Charge in [= k∈ |8p1 F = 91 E

2 point of interest

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