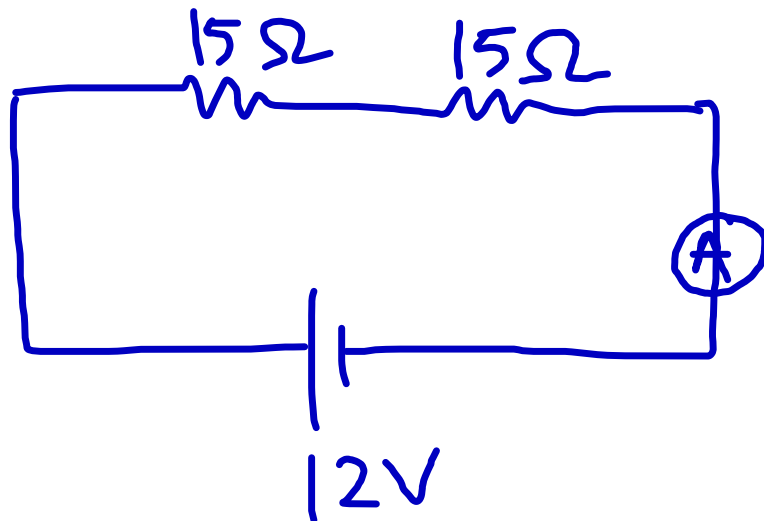


Current $I = \frac{\text{charge}}{\text{time}}$

$$1 \text{ Amp} = \frac{1 \text{ C}}{\text{s}}$$



$$R_{\text{eq}} = 30 \Omega$$

$$V = 12 \text{ V}$$

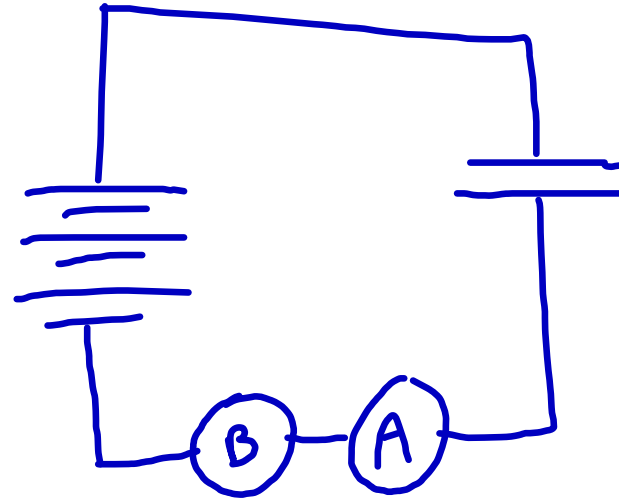
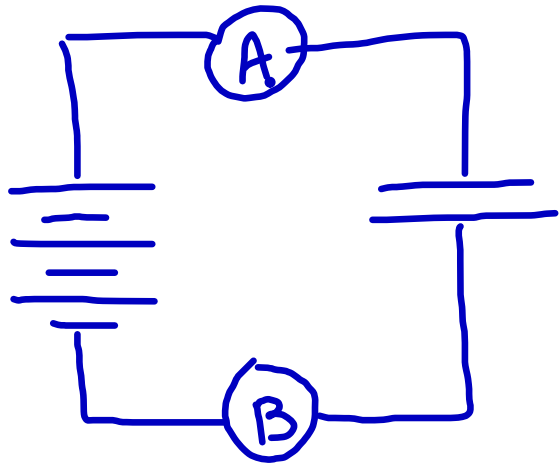
$$I = ?$$

$$4 \text{ C} = 2.5 \times 10^{19} \text{ electrons}$$

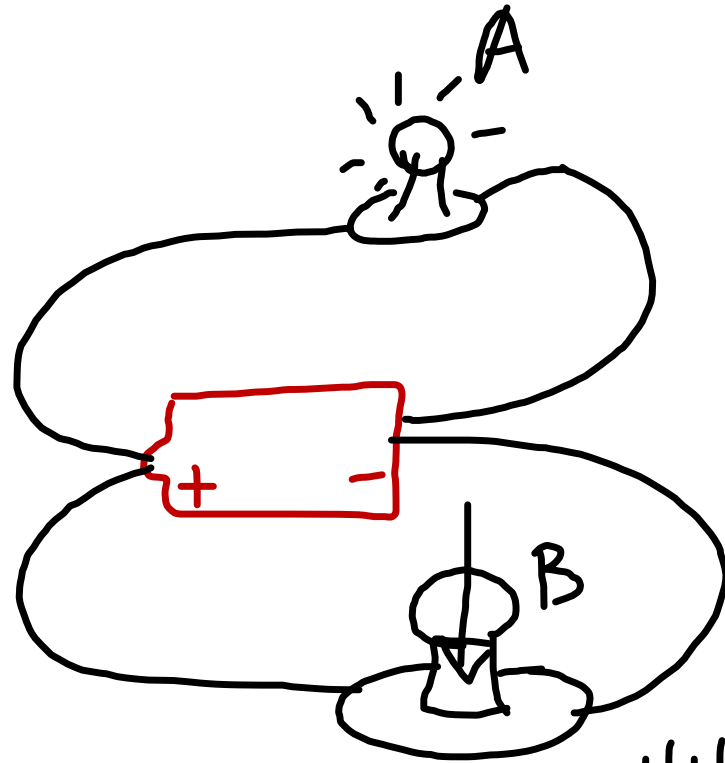
$$6.25 \times 10^{18} \text{ electrons} = 1 \text{ C}$$

$$I = \frac{V}{R} = \frac{12 \text{ V}}{30 \Omega}$$

$$I = .4 \text{ A}$$

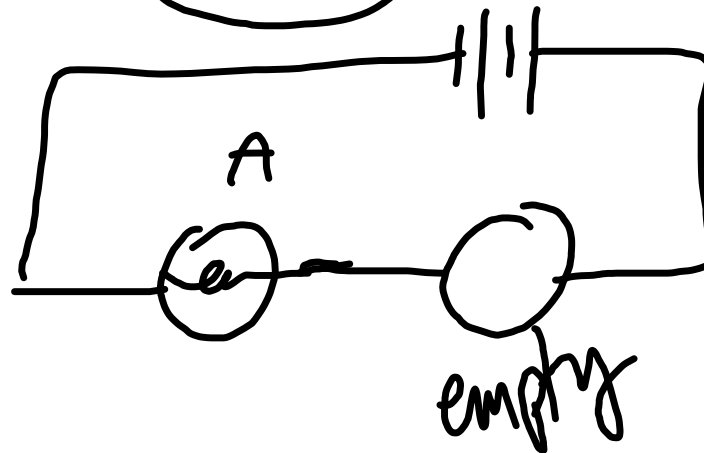


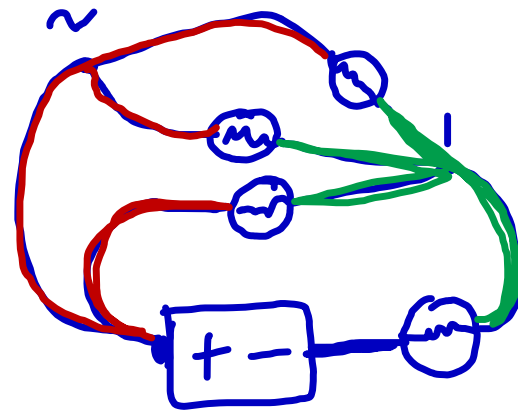
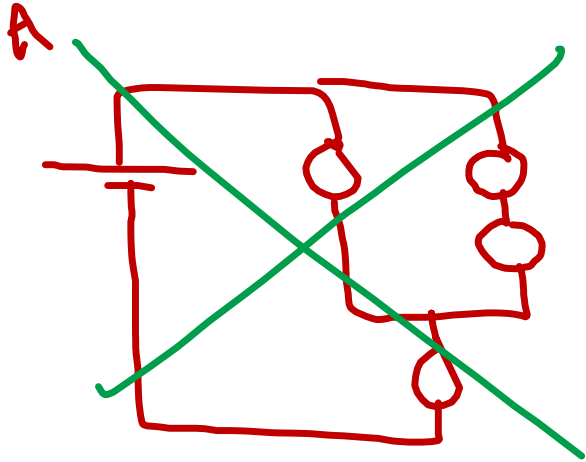
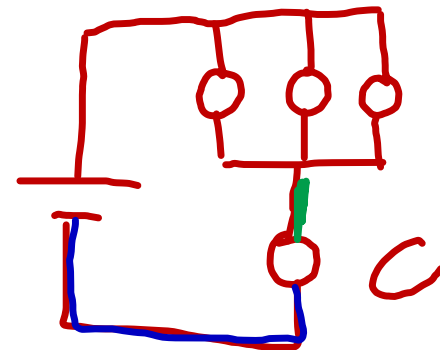
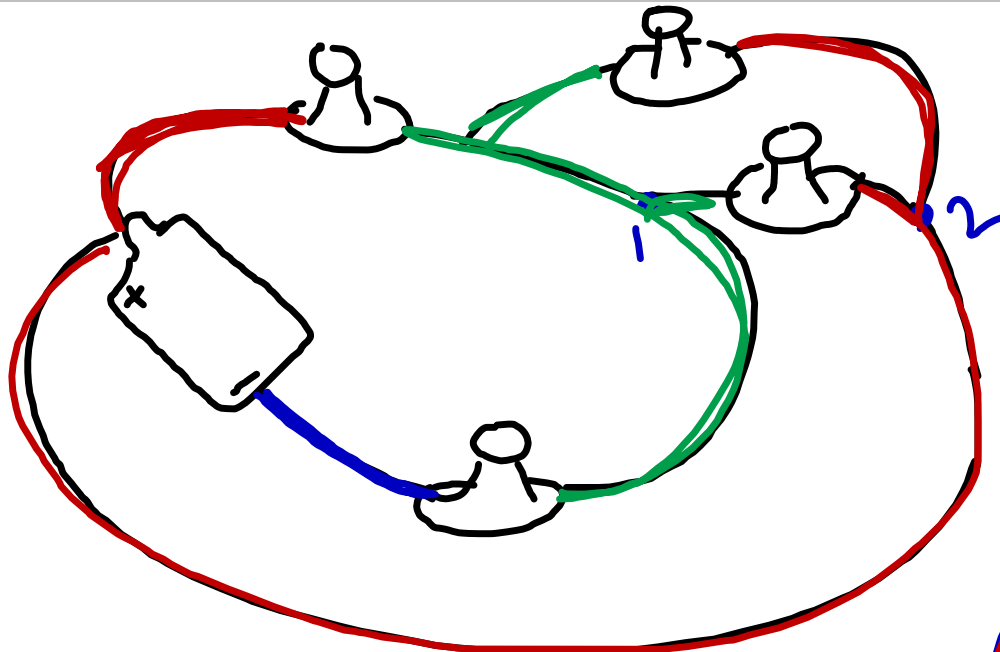
- ~~a)~~ $I_B > I_A$ in left dia
- ~~b)~~ $I_A > I_B$ in left dia
- c)** I same in both figures
- ~~d)~~ $I_A = I_A$ for both, BUT I_B 's differ



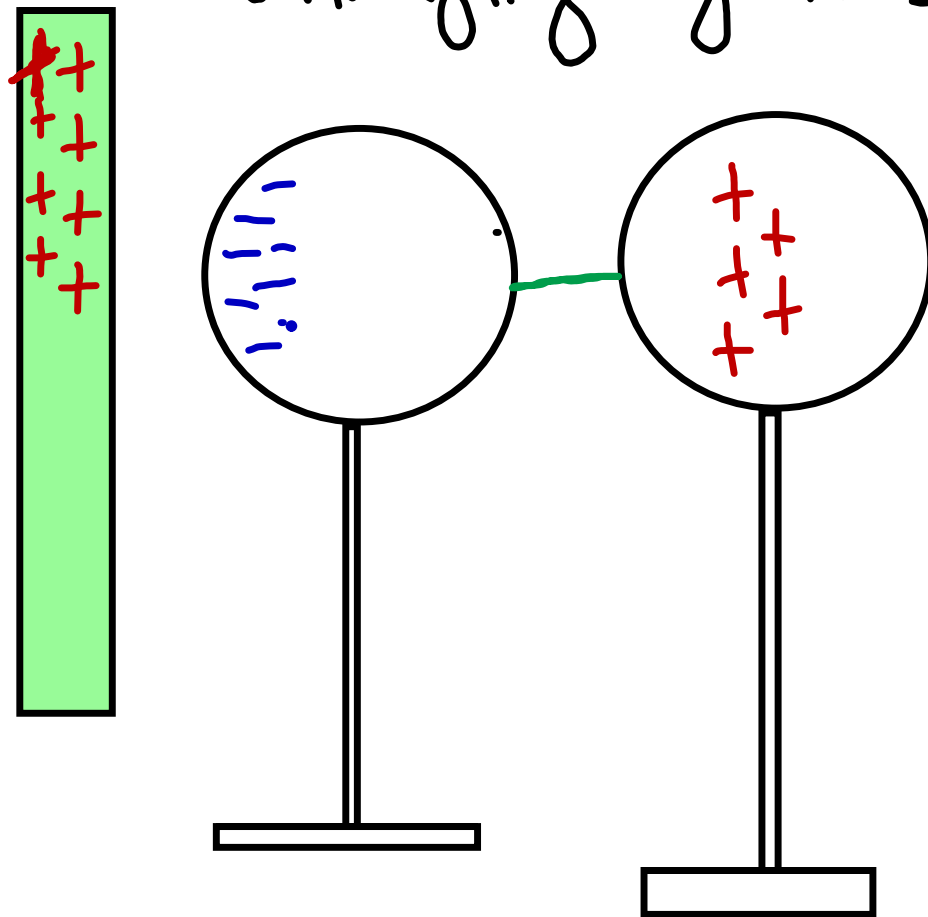
Before: Bulb A
is lit

After: Same





Charging by INDUCTION



Test Q's to be
graded ...

6, 7, 8, 14, 16, 20,

21, 22, 27, 30