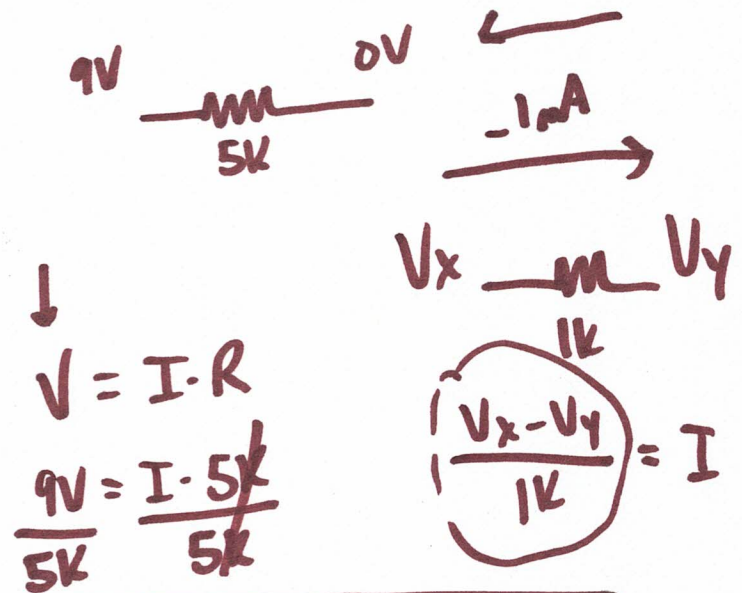
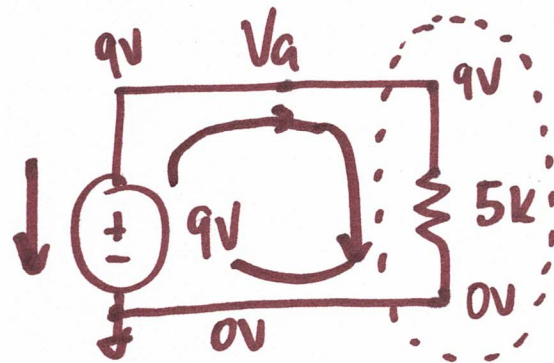
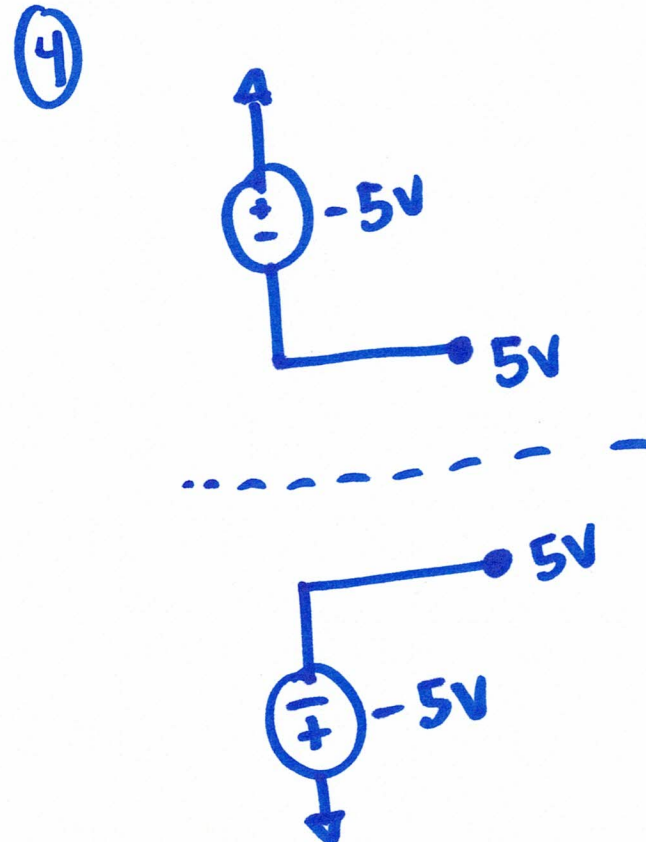
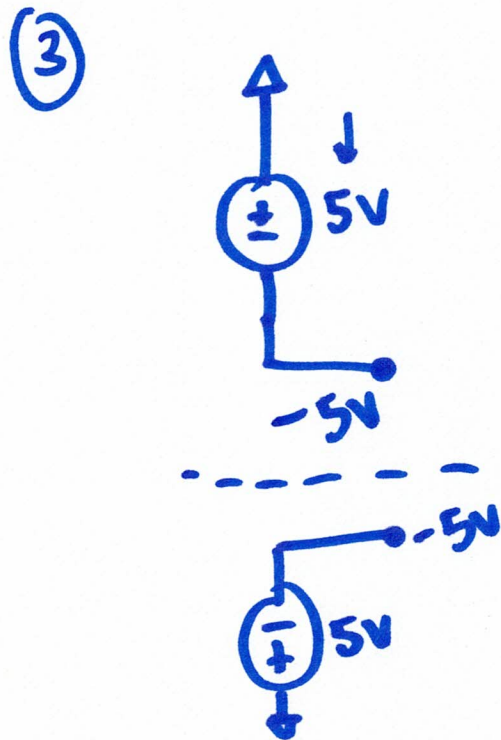
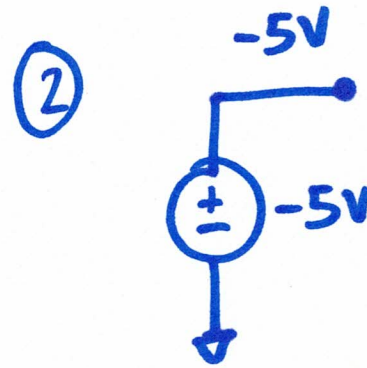
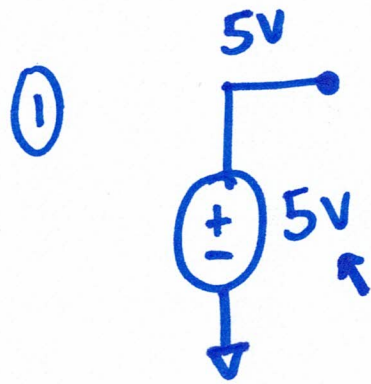


EE 220: Circuits I

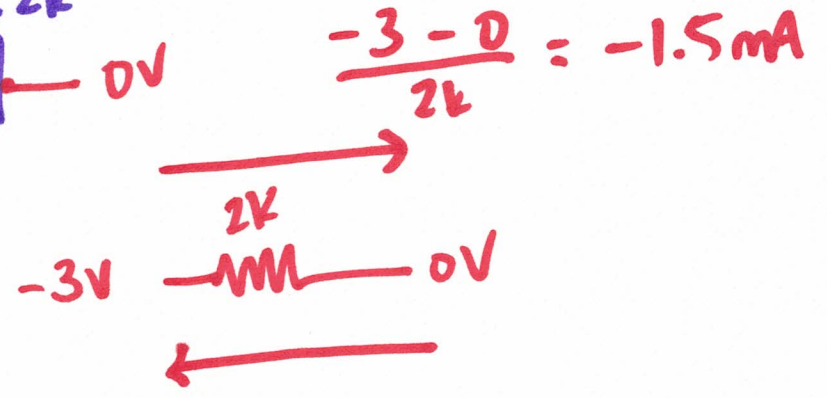
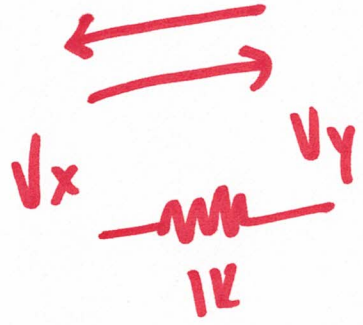
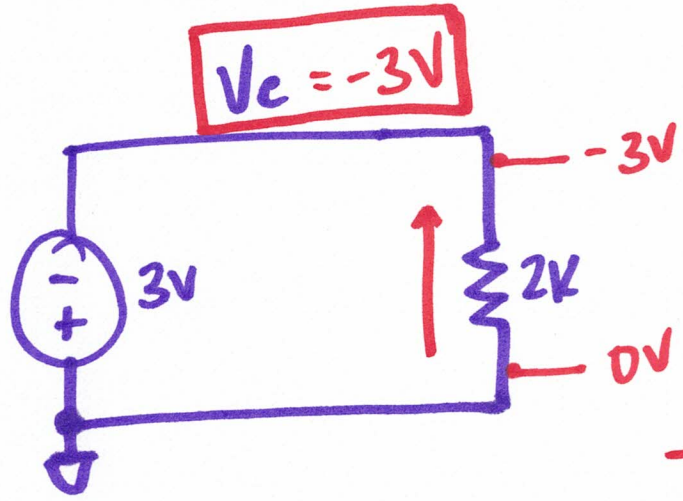


$$V = I \cdot R$$
$$\frac{9V}{5k} = \frac{I \cdot 5k}{5k}$$

$$I = 9V / 5k = 1.8 \text{ mA}$$



HW1:1c

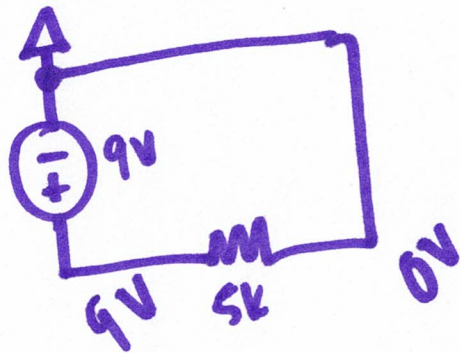
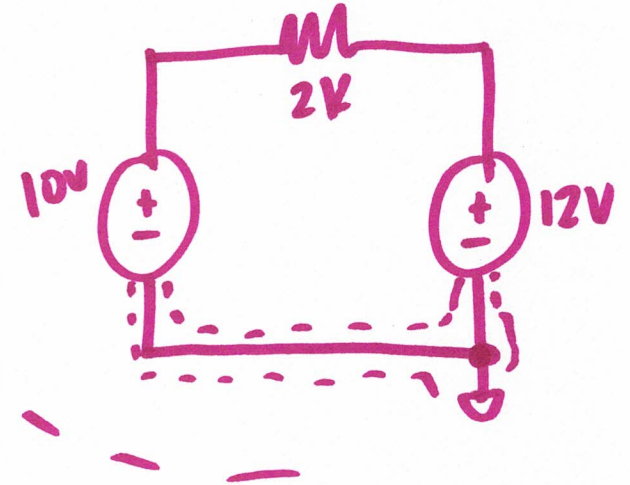
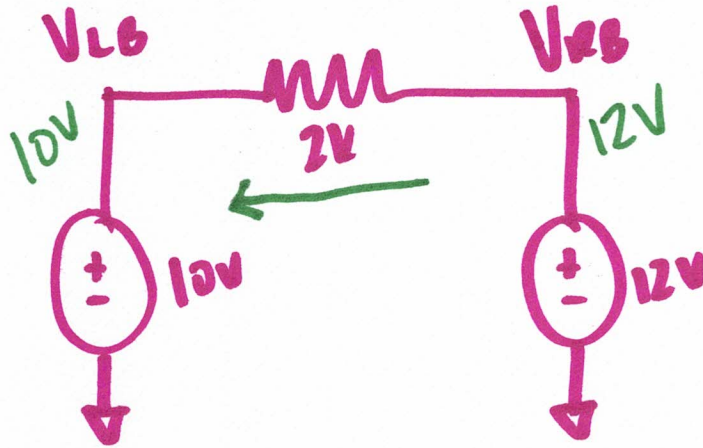
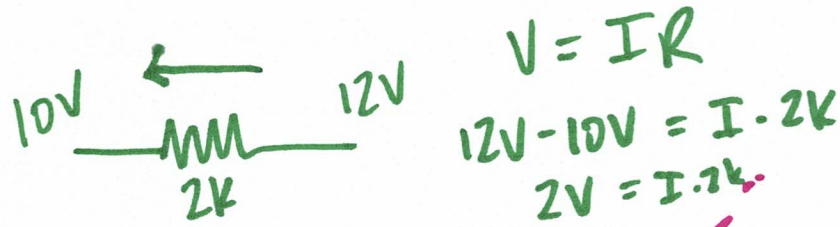


$$V = IR$$
$$\uparrow$$
$$0 - (-3) = I \cdot 2k$$

$$\frac{3}{2k} = \frac{I \cdot \cancel{2k}}{\cancel{2k}}$$

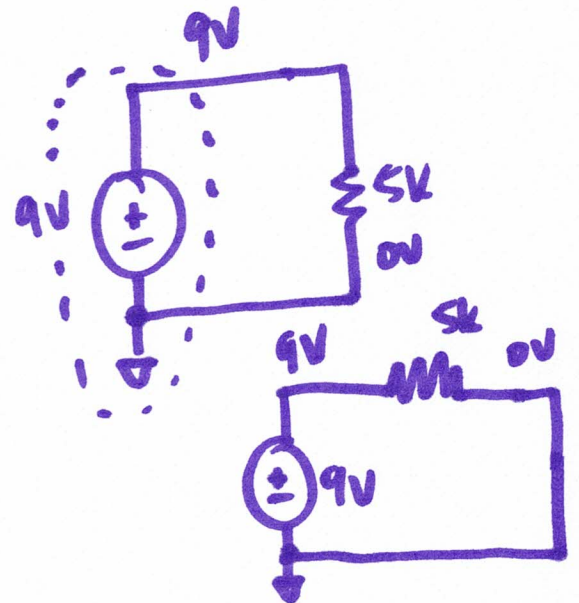
$I = 1.5mA$

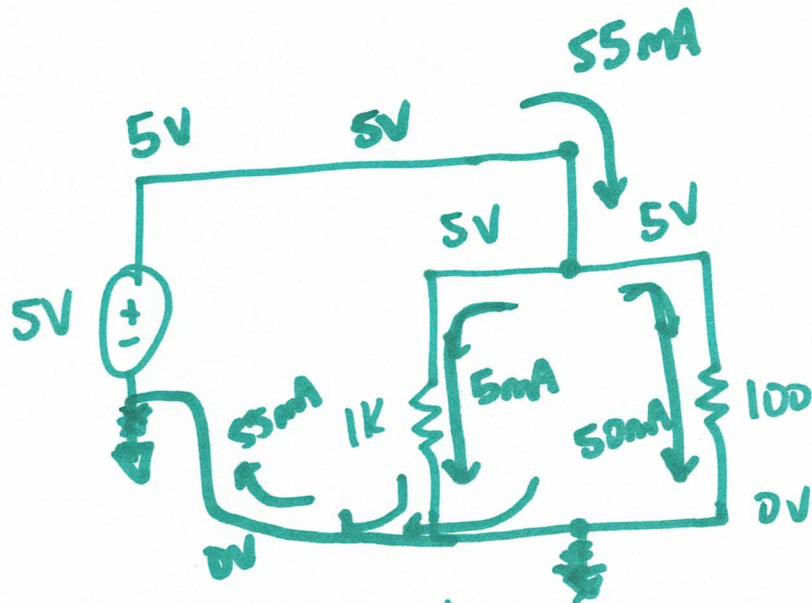
HW1: 3B



$$\frac{2V}{2k} = \frac{I \cdot 2k}{2k}$$

$I = 1mA$



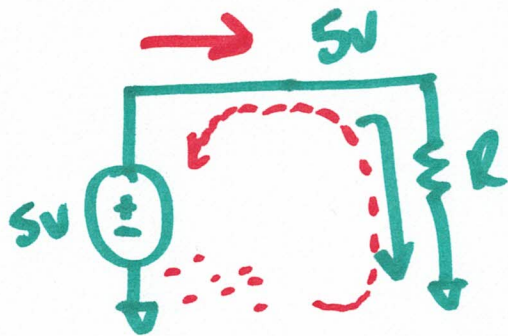


KCL → Kirchoff's Current Law

$$I = V/R$$

$$I = \frac{5V - 0V}{100} = 50mA$$

$$\frac{5V - 0V}{1k} = 5mA$$



* Conventional current flow

* electron flow

