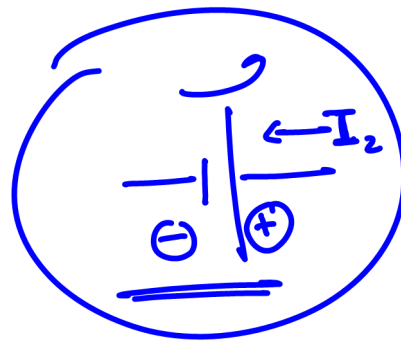
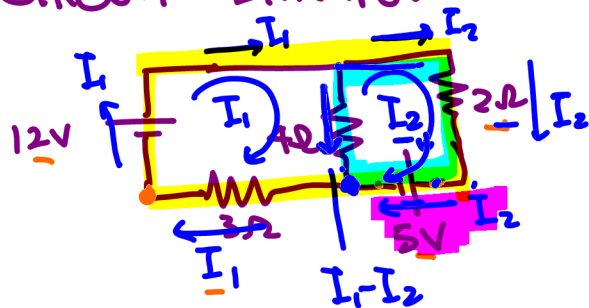


MULTI-LOOP CIRCUIT EXAMPLE;



$$+12 - 2I_2 - 5 - 3I_1 = 0$$

$$7 - 2I_2 - 3I_1 = 0 \rightarrow \boxed{3I_1 + 2I_2 = 7}$$

$$\begin{aligned} 9I_1 + 6I_2 &= 21 \\ + 4I_1 - 6I_2 &= 5 \end{aligned}$$

$$\hline 13I_1 = 26$$

$$\boxed{I_1 = 2A}$$

$$4(I_1 - I_2) - 2I_2 - 5 = 0$$

$$\boxed{4I_1 - 6I_2 = 5}$$

$$3I_1 + 2I_2 = 7$$

$$6 + 2I_2 = 7 \rightarrow \boxed{I_2 = 0.5A}$$