Source: [KBhPHYS201CircuitCalculations]

1 | Kirkoff's Laws

A circut!

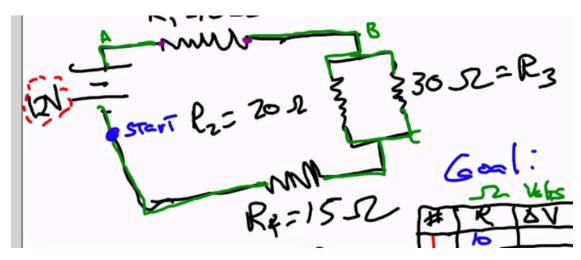


Figure 1: Screen Shot 2020-09-14 at 10.38.44 AM.png

Kirkoff's First Law Sum of voltage in any closed loop should add up to 0

As in, the sum of all voltage changes from Start => Start will add up to 0.

Kirkoff's Second law Net current flowing into a node is 0

With a current i_0 , when it flows into a junction like B, the current i_0 splits into i_2 and i_3 So, to calculate the resistance and current at every point o START at start

- +12
- $-I_1*10$ (per $I=\frac{\Delta V}{resistance}$)
- $-I_2 * 20$
- $-I_1 * 15$
- $\bullet = 0$

 $I_1-I_2-I_3=0$, per Kirerbab's Second Law.