



$$I_{TOT} = I_1 + I_2 + I_3$$

$$V_{TOT} = I \cdot R_{TOT}$$

$$V_{AB} = V_{R_1} = I_1 \cdot R_1$$

$$V_{AB} = V_{R_2} = I_2 \cdot R_2$$

$$V_{AB} = V_{R_3} = I_3 \cdot R_3$$

$$R_{TOT} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}}$$

