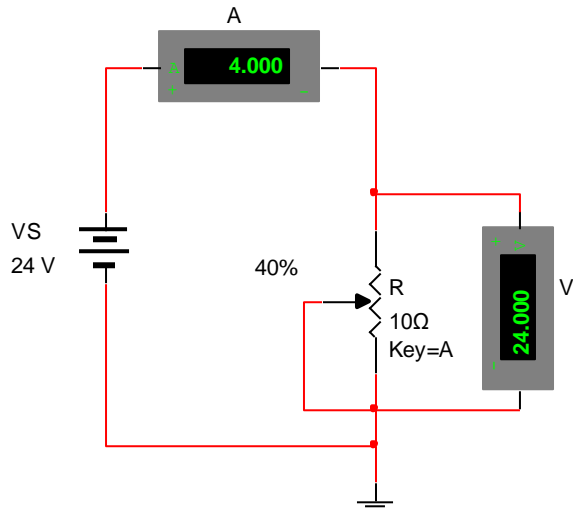


REOSTA

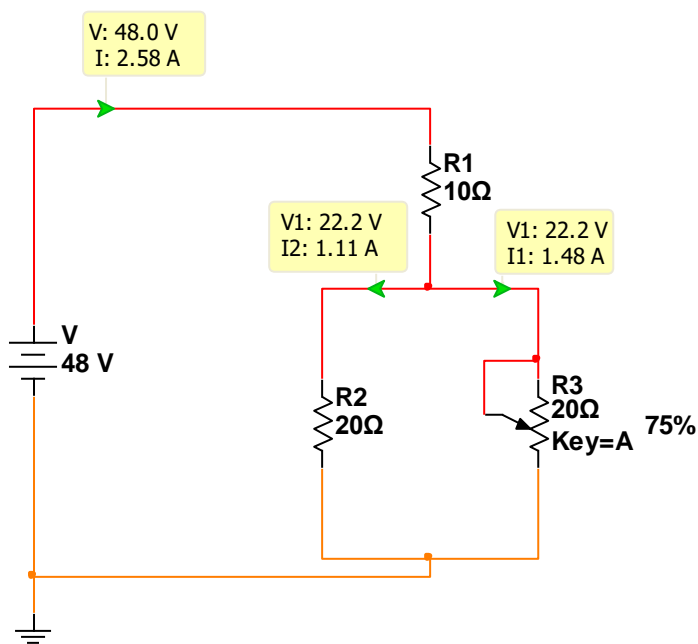
Örnek 1:



$$V := 24 \quad R := 10 \quad \eta := 0.40$$

$$I := \frac{V}{R \cdot (1 - \eta)} \quad I = 4$$

Örnek 2:



$$V := 48 \quad R1 := 10 \quad R2 := 20$$

$$R3 := 20 \quad \eta := 0.75$$

$$R_{\text{resd}} := R1 + \frac{1}{\frac{1}{R2} + \frac{1}{\eta \cdot R3}} \quad R_{\text{resd}} = 18.57$$

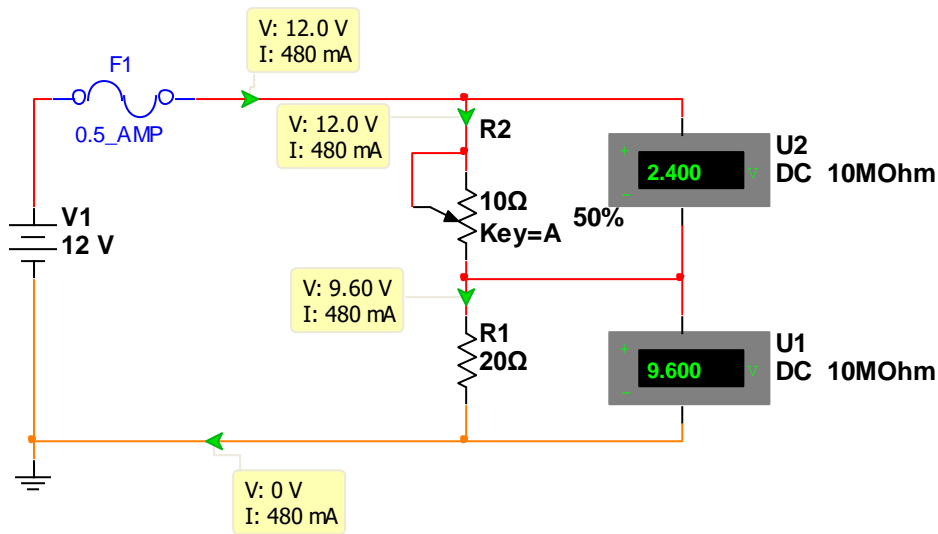
$$I := \frac{V}{R_{\text{resd}}} \quad I = 2.58$$

$$V1 := V - I \cdot R1 \quad V1 = 22.15$$

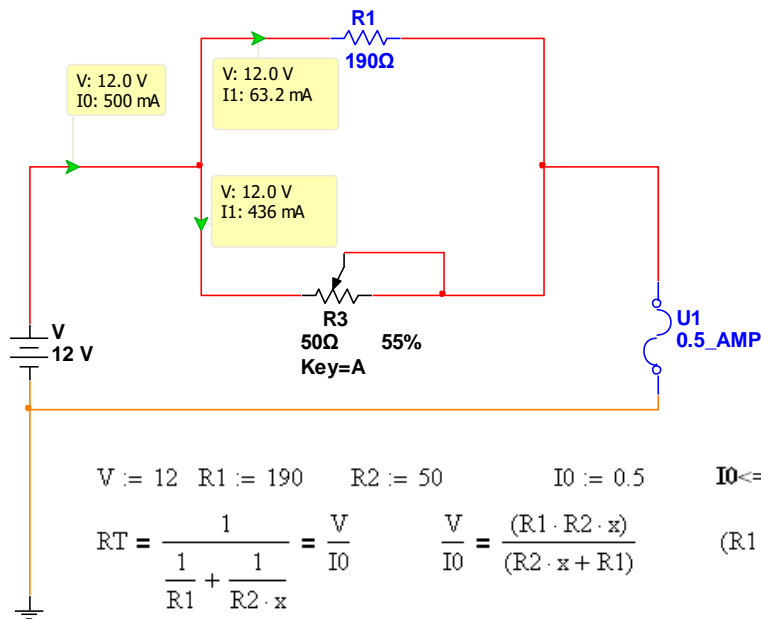
$$I2 := \frac{V1}{R2} \quad I2 = 1.11$$

$$I3 := \frac{V1}{\eta \cdot R3} \quad I3 = 1.48$$

Örnek 3:



Örnek 4:



$$V := 12 \quad R1 := 190 \quad R2 := 50 \quad I0 := 0.5 \quad I0 \leq 0.5 \text{ A}$$

$$R_T = \frac{1}{\frac{1}{R1} + \frac{1}{R2 \cdot x}} = \frac{V}{I0} \quad \frac{V}{I0} = \frac{(R1 \cdot R2 \cdot x)}{(R2 \cdot x + R1)} \quad (R1 \cdot R2 \cdot x) = (R2 \cdot x + R1) \cdot \frac{V}{I0}$$

$$x \cdot \left(R1 \cdot R2 - R2 \cdot \frac{V}{I0} \right) = R1 \cdot \frac{V}{I0}$$

$$x := \frac{R1 \cdot \frac{V}{I0}}{\left(R1 \cdot R2 - R2 \cdot \frac{V}{I0} \right)} \quad x = 0.5494$$

$$R_T := \frac{V}{I0} \quad R_T = 24$$

$$x \gg 0.5494$$

$$I0 = I1 + I2 \quad V = I1 \cdot R1 = I2 \cdot R2$$

$$I1 := \frac{V}{R1} \quad I1 = 0.0632 \quad I2 := \frac{V}{R2 \cdot x} \quad I2 = 0.4368$$

$$I1 := \frac{R_T}{R1} \cdot I0 \quad I1 = 0.0632 \quad I2 := \frac{R_T}{R2 \cdot x} \cdot I0 \quad I2 = 0.4368$$