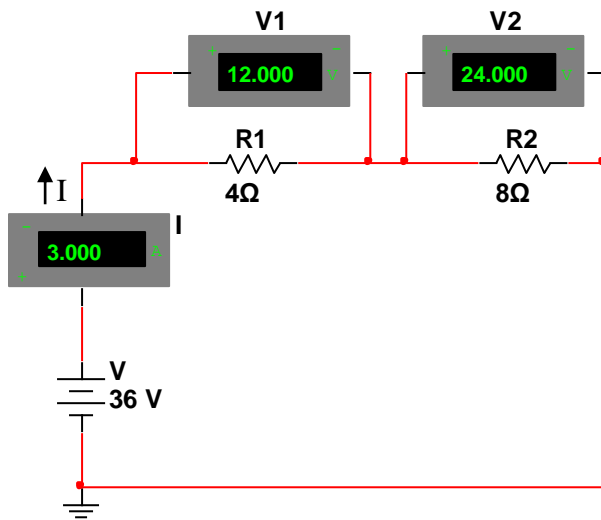


Güç (Power)

Örnek 1:



$$V := 36 \text{ V} \quad R1 := 4 \text{ } \Omega \quad R2 := 8 \text{ } \Omega \quad R_{\text{resd}} := R1 + R2 \quad R_{\text{resd}} := 12 \text{ } \Omega$$

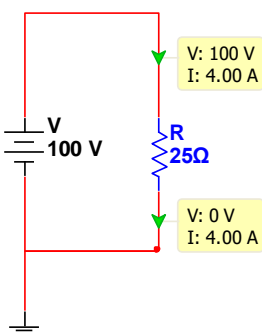
$$V = I \cdot R \quad I := \frac{V}{R_{\text{resd}}} \quad I = 3 \text{ A} \quad P := V \cdot I \quad P = 108 \text{ W}$$

$$V1 := I \cdot R1 \quad V1 = 12 \text{ V} \quad P1 := I^2 \cdot R1 \quad P1 = 36 \text{ W}$$

$$V2 := I \cdot R2 \quad V2 = 24 \text{ V} \quad P2 := I^2 \cdot R2 \quad P2 = 72 \text{ W}$$

$$P := P1 + P2 \quad P = 108 \text{ W}$$

Örnek 2:

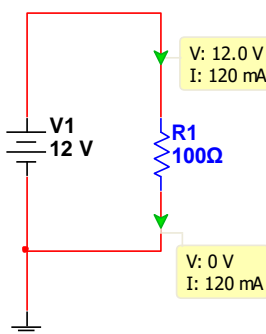


$$V := 100 \quad R := 25$$

$$V = I \cdot R \quad I := \frac{V}{R} \quad I = 4$$

$$P := V \cdot I \quad P = 400 \text{ W}$$

$$P := I^2 \cdot R \quad P = 400 \text{ W}$$

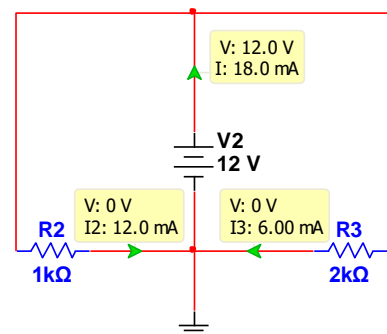


$$V1 := 12 \quad R1 := 100$$

$$V1 = I1 \cdot R1 \quad I1 := \frac{V1}{R1} \quad I1 = 0.12$$

$$P1 := V1 \cdot I1 \quad P1 = 1.44 \text{ W}$$

$$P1 := I1^2 \cdot R1 \quad P1 = 1.44 \text{ W}$$



$$V2 := 12 \quad R2 := 1000 \quad R3 := 2000$$

$$V2 = I2 \cdot R2 \quad I2 := \frac{V2}{R2} \quad I2 = 0.012$$

$$V2 = I3 \cdot R3 \quad I3 := \frac{V2}{R3} \quad I3 = 0.006$$

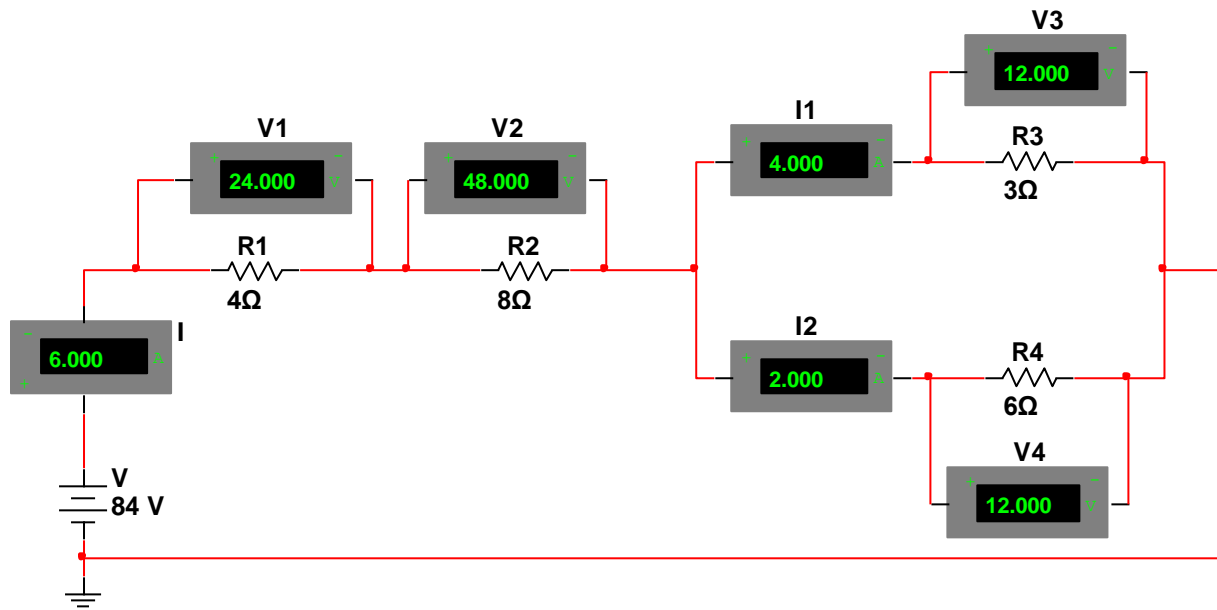
$$I := I2 + I3 \quad I = 0.018$$

$$P2 := I2^2 \cdot R2 \quad P2 = 0.144 \text{ W}$$

$$P3 := I3^2 \cdot R3 \quad P3 = 0.072 \text{ W}$$

$$P := V2 \cdot I \quad P = 0.216 \text{ W}$$

Örnek 3:



$$V := 84 \text{ V} \quad R1 := 4 \text{ } \Omega \quad R2 := 8 \text{ } \Omega \quad R3 := 3 \text{ } \Omega \quad R4 := 6 \text{ } \Omega$$

$$R23 := R1 + R2 \quad R23 = 12 \quad R34 := \frac{1}{\frac{1}{R3} + \frac{1}{R4}} \quad R34 = 2$$

$$Resd := R23 + R34 \quad Resd = 14 \text{ } \Omega$$

$$V = I \cdot R \quad I := \frac{V}{Resd} \quad I = 6 \text{ A} \quad P := V \cdot I \quad P = 504 \text{ W}$$

$$V1 := I \cdot R1 \quad V1 = 24 \text{ V} \quad P1 := I^2 \cdot R1 \quad P1 = 144 \text{ W}$$

$$V2 := I \cdot R2 \quad V2 = 48 \text{ V} \quad P2 := I^2 \cdot R2 \quad P2 = 288 \text{ W}$$

$$I3 := \frac{R4}{R3 + R4} \cdot I \quad I3 = 4 \quad I4 := \frac{R3}{R3 + R4} \cdot I \quad I4 = 2$$

$$V3 := I3 \cdot R3 \quad V3 = 12 \text{ V} \quad P3 := I3^2 \cdot R3 \quad P3 = 48 \text{ W}$$

$$V4 := I4 \cdot R4 \quad V4 = 12 \text{ V} \quad P4 := I4^2 \cdot R4 \quad P4 = 24 \text{ W}$$

$$P := P1 + P2 + P3 + P4 \quad P = 504 \text{ W}$$