

OHM'S LOV

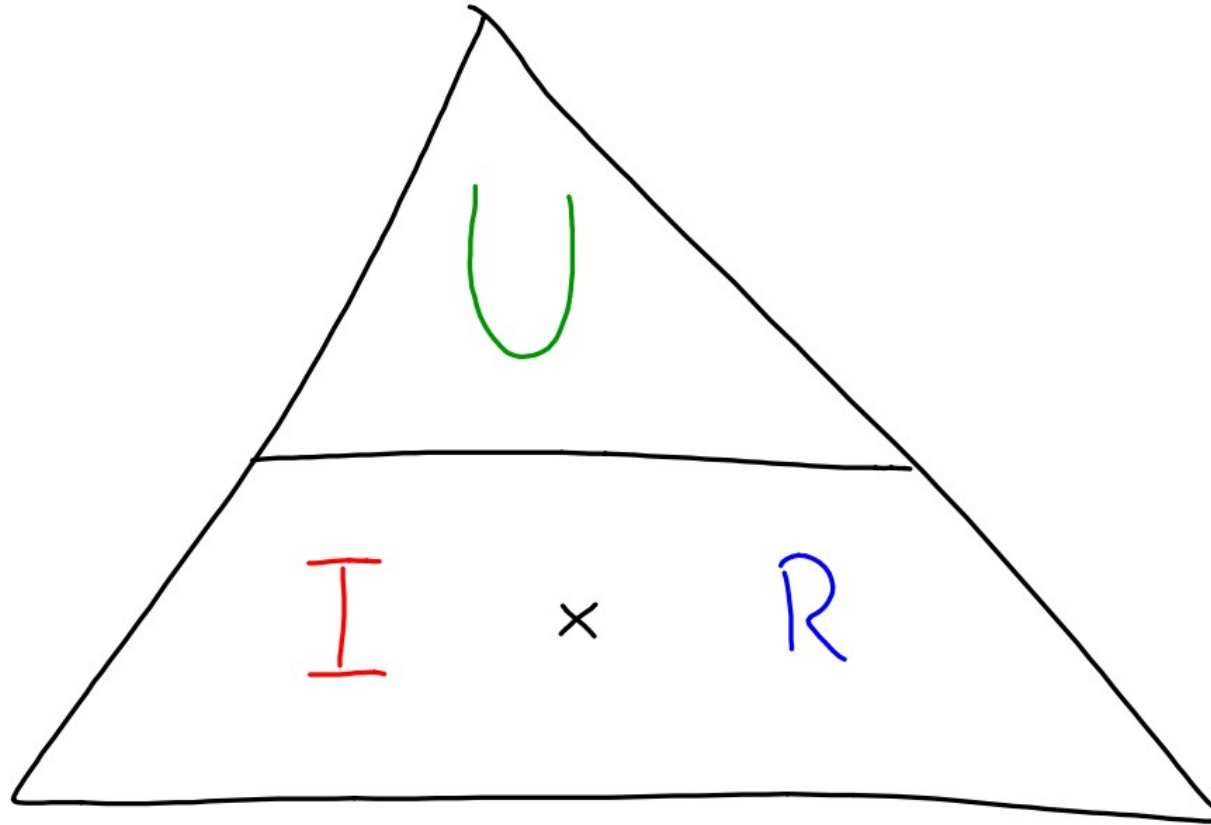
SPÆNDING = STRØM $\times$ MODSTAND

$$U = I \times R$$



$$= \left(\text{cat} + \text{cat}^{\text{box}} \right)^{\text{box}}$$

OHM'S LOV



$$U = I \times R$$

$$I = \frac{U}{R}$$

$$R = \frac{U}{I}$$

OHM'S LOV TAVLE EKS.

$$\begin{array}{ccccccccc} & \textcircled{1} & \textcircled{2} & & \textcircled{3} & & \textcircled{4} & \textcircled{5} \\ U=230V & I = & \frac{U}{R} & \Rightarrow & \frac{230}{30} & = & \underline{\underline{7,67}} & A \\ R=30\Omega & & & & & & & \end{array}$$

- ① HVAD VIL VI FINDE?
- ② HVORDAN VIL VI FINDE?
- ③ MED HVILKE VÆRDI'EN?
- ④ RESULTATET
- ⑤ ENHED (EVT. PREFIX)

VIGTIGT!

$$U = 100V$$

$$I = 21A$$

$$R = \frac{U}{I} \Rightarrow \frac{100}{21} = \underline{\underline{4,76\Omega}}$$

$$U = 120V$$

$$I = 224mA$$

$$R = \frac{U}{I} \Rightarrow \frac{120}{0,224} = \underline{\underline{535,71\Omega}}$$

$$R = 880\Omega$$

$$I = 201mA$$

$$U = I \times R \Rightarrow 0,201 \times 880 = \underline{\underline{176,88V}}$$

$$U = 230V$$

$$R = 1,2k\Omega$$

$$I = \frac{U}{R} \Rightarrow \frac{230}{1200} = 0,1916667A \sim \underline{\underline{191,67mA}}$$

$$I = 12A$$

$$R = 200\Omega$$

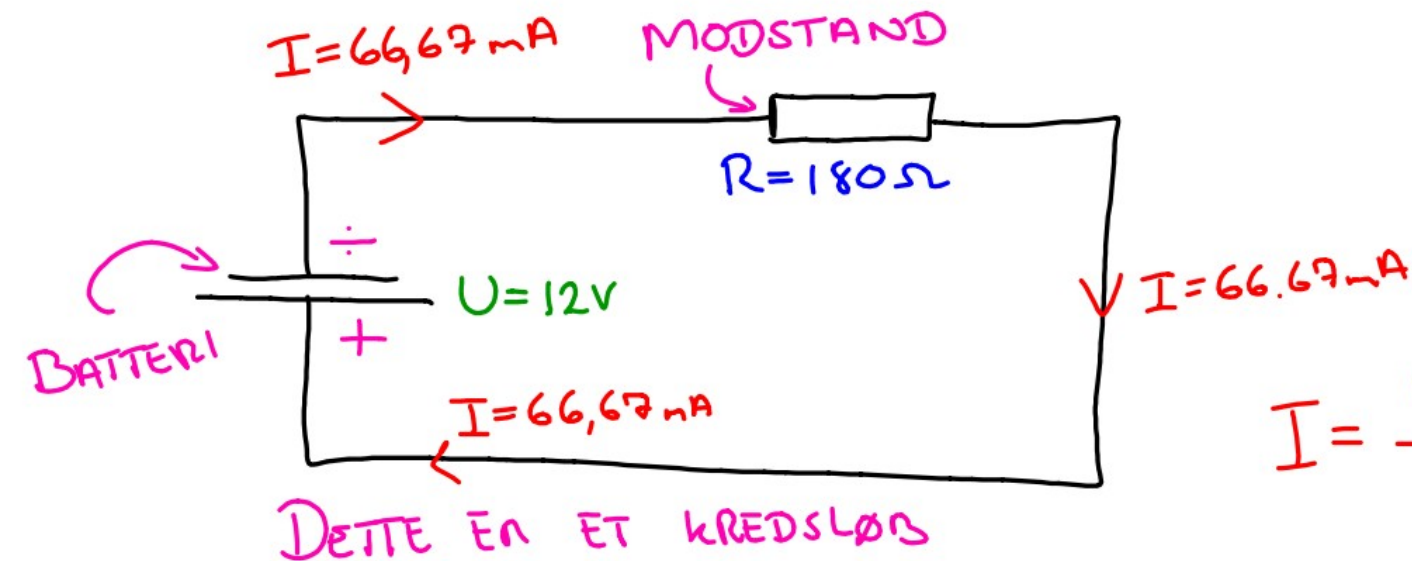
$$U = I \times R \Rightarrow 12 \times 200 = 2400V \sim \underline{\underline{2,4kV}}$$

$$U = 230V$$

$$I = 10A$$

$$R = \frac{U}{I} \Rightarrow \frac{230}{10} = \underline{\underline{23\Omega}}$$

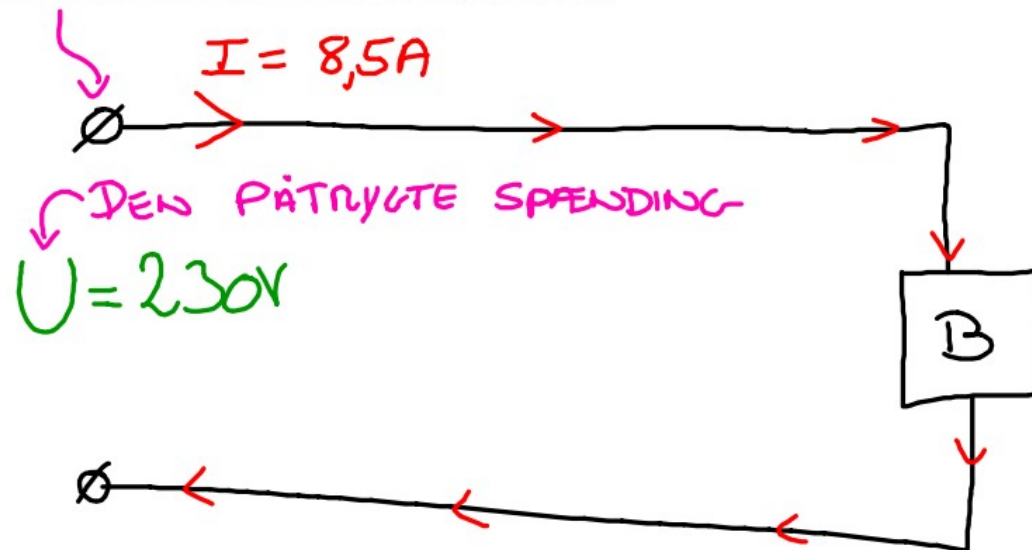
OHM'S LOV I KREDSLØB



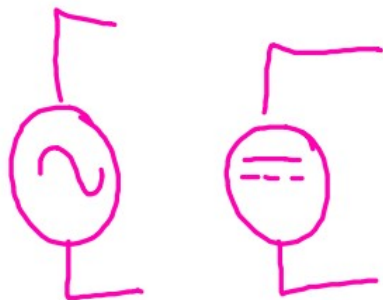
MODSTAND symbol
—— USA
—— Europa

$$I = \frac{U}{R} \Rightarrow \frac{12}{180} = \underline{\underline{66,67\text{mA}}}$$

TILSLUTNINGSKLEMMER



$$R = \frac{U}{I} \Rightarrow \frac{230}{8,5} = \underline{\underline{27,06\Omega}}$$



BRUGSGENSTAND

