$P = UI$ $[V \cdot A = W \; watt]$ $W = UIt$

$\nwarrow$ el. effekt til komponent $P = \frac{W}{t} = UI$

$Wh = W \cdot 60 \cdot 60 s = 3600 \, Ws = 3{,}6 \, kJ$

wattimer

eks. 11.15
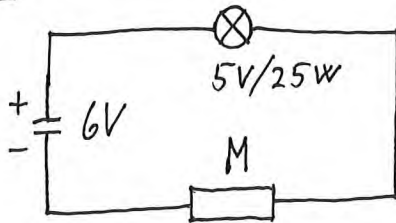
$\otimes$ lyser normalt

$P_M = ?$

$P = UI \Rightarrow I = \frac{P}{U} = \frac{25w}{5V} = 5{,}0A$

Kirchh. 2. lov: $U_M = 6V - 5V = 1V$

I lik overalt: $P_M = U_M I_M = 1V \cdot 5{,}0A = \underline{5W}$

$W = UIt = U \cdot \left(\frac{U}{R}\right) \cdot t = \frac{U^2}{R} \cdot t$

$P = UI$

$P = RI^2$

$P = \frac{U^2}{R}$

$\left(U = RI \quad \text{for omformingene} \right)$

$\boxed{11.30}$

$\boxed{5}$