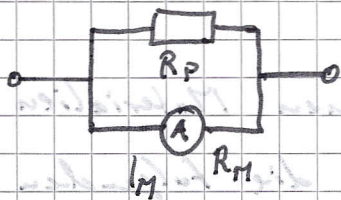


Messbereichserweiterung Strommesssen



Erweiterungsfaktor: $m = \frac{I}{I_M}$

$$I_M = I \cdot \frac{R_p}{R_M + R_p}$$

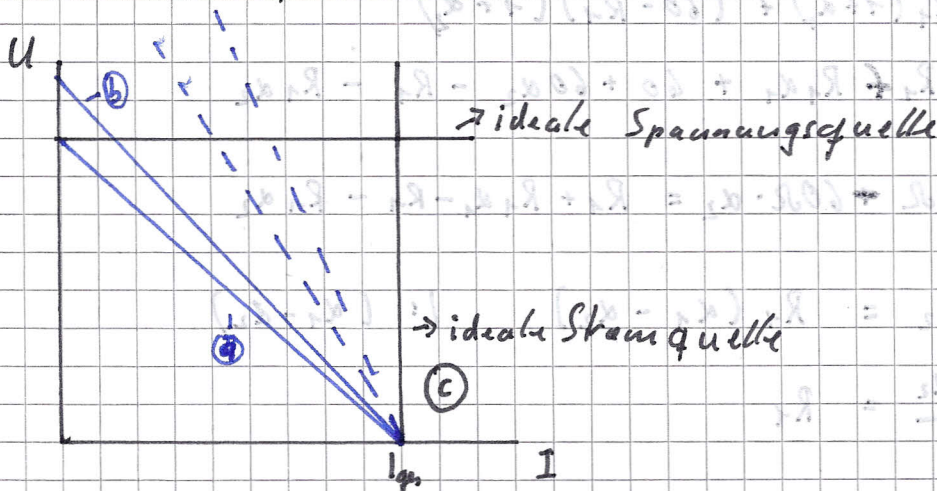
$R_M + R_p \rightarrow$ Ringsumme

$$m = \frac{I}{I_M} = \frac{R_p}{R_M + R_p} = 1 + \frac{R_M}{R_p}$$

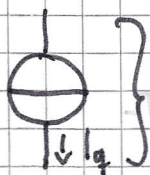
$$\frac{R_M}{R_p} = m - 1 \Rightarrow R_p = \frac{R_M}{m - 1} = \frac{R_M}{\frac{1}{m} - 1}$$

$$R_M' = \frac{R_M}{m}$$

Konstantstromquellen (reale Stromquellen)



\rightarrow reale Stromquelle



Symbol der idealen Stromquelle