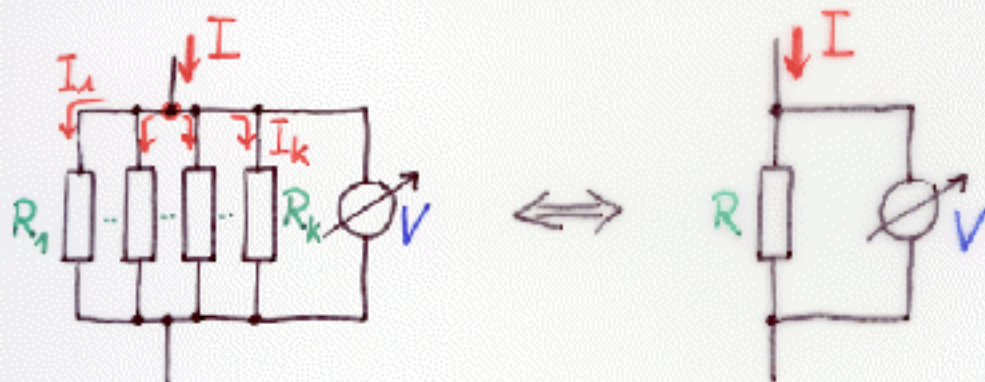


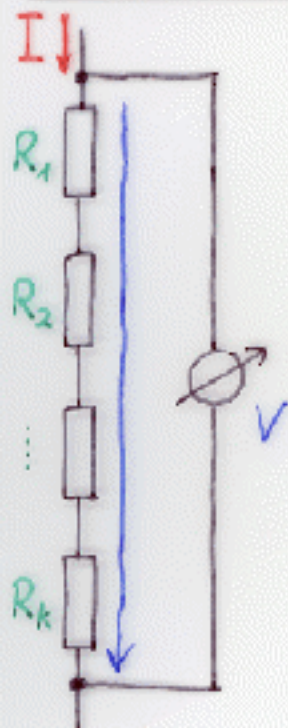
Parallelschaltung von Widerständen



Knotenregel: $I = \sum_k I_k = \sum_k \frac{V}{R_k} \stackrel{!}{=} \frac{V}{R}$

$\Rightarrow \boxed{\frac{1}{R} = \sum_k \frac{1}{R_k}}$

Serieschaltung



Maschenregel:

$$V = I \cdot R = \sum_k I \cdot R_k = I \cdot \sum_k R_k$$

$\Rightarrow \boxed{R = \sum_k R_k}$