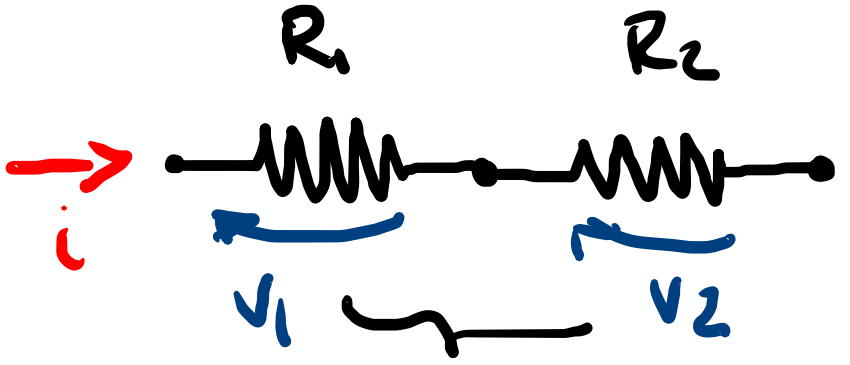
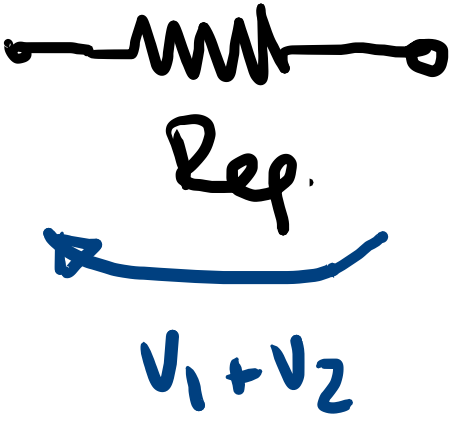
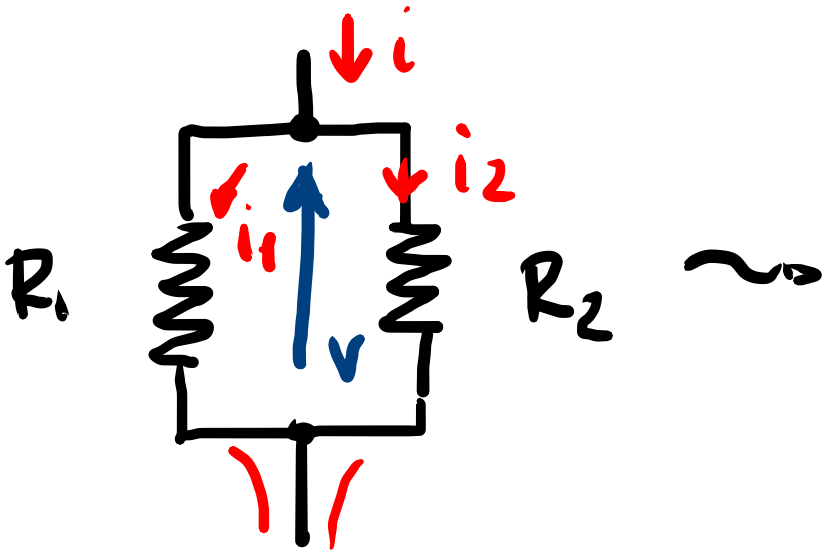
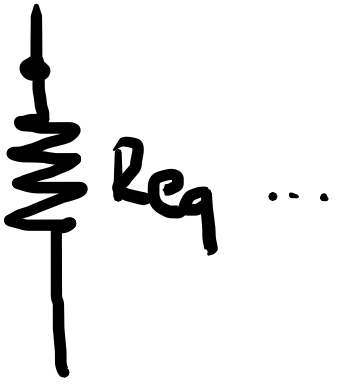




$$R_{eq} = R_1 + R_2$$





$R_1 = 100\,\Omega$

$R_2 = 100\,\Omega$

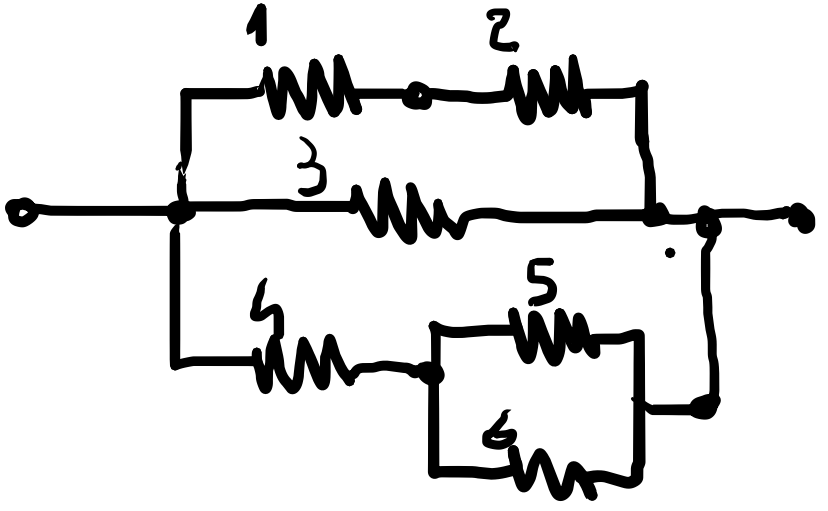
$\downarrow$

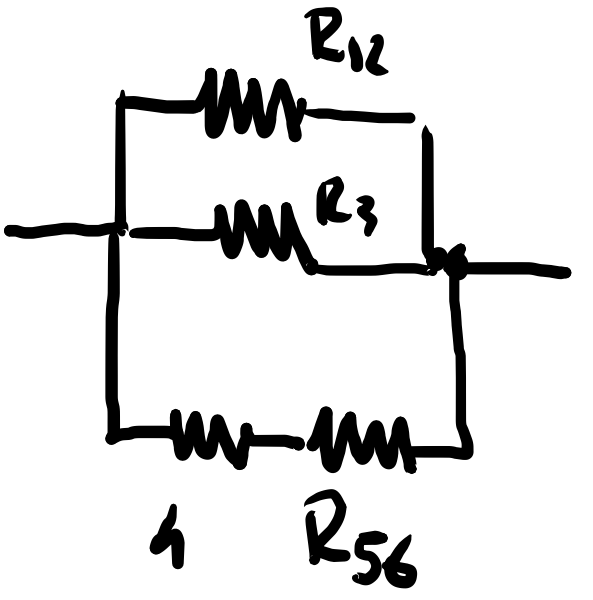
$R_{eq} = 50\,\Omega.$

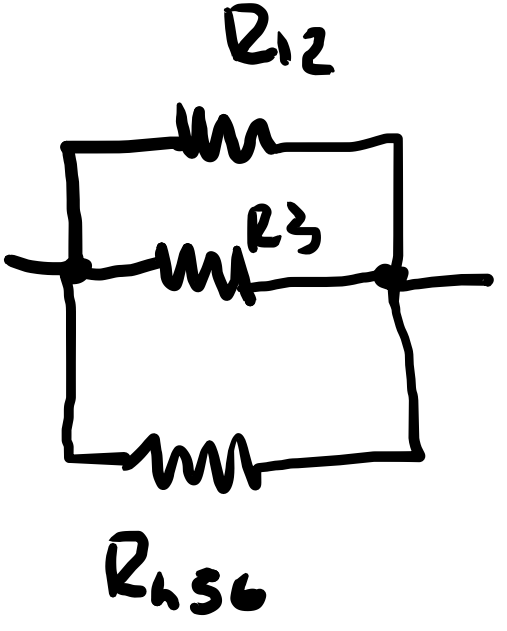
$$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$$

$$\frac{1}{R_{eq}} = \frac{R_2 + R_1}{R_1 R_2}$$

$$R_{eq} = \frac{R_1 \cdot R_2}{R_1 + R_2}$$







$$\frac{1}{R_{eq}} = \frac{1}{R_{12}} + \frac{1}{R_3} + \frac{1}{R_{456}} \; ..$$