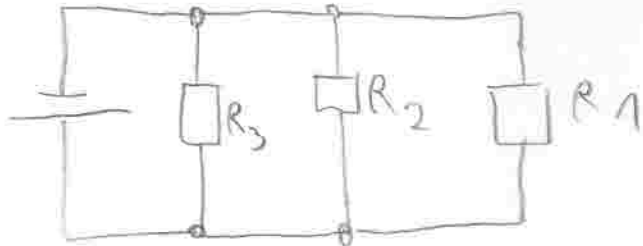
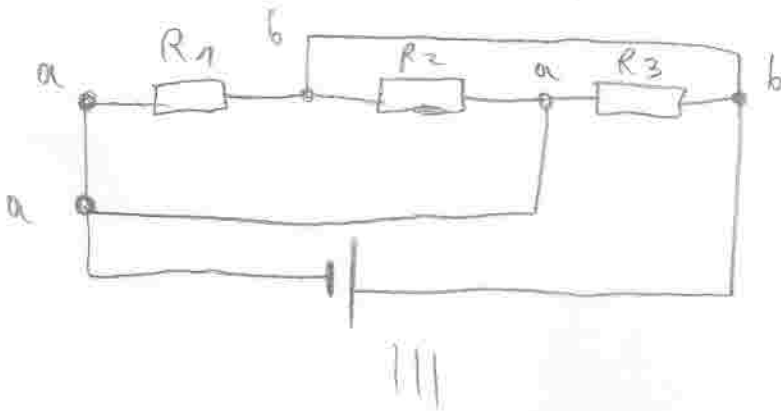


15.13 obliczy $R_{WYPADKOWE}$

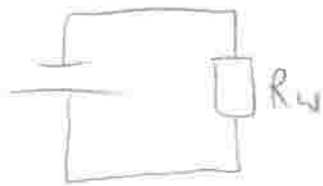
$$G = \frac{1}{R} \quad [S]$$



$$\frac{1}{R_W} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$\frac{1}{R_W} = \frac{R_2 R_3}{R_1 R_2 R_3} + \frac{R_1 R_3}{R_1 R_2 R_3} + \frac{R_2 R_1}{R_3 R_1 R_2}$$

$$\frac{1}{R_W} = \frac{R_2 R_3 + R_1 R_3 + R_1 R_2}{R_1 R_2 R_3}$$



$$R_W = \frac{R_1 R_2 R_3}{R_2 R_3 + R_1 R_3 + R_1 R_2}$$

$$G_1 = \frac{1}{R_1} \quad G_2 = \frac{1}{R_2} \quad G_3 = \frac{1}{R_3}$$

$$G_W = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$R_W = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}}$$

$$R_W = \frac{R_1 \cdot R_2 \cdot R_3}{R_2 R_3 + R_1 R_3 + R_1 R_2} \quad [\Omega]$$

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