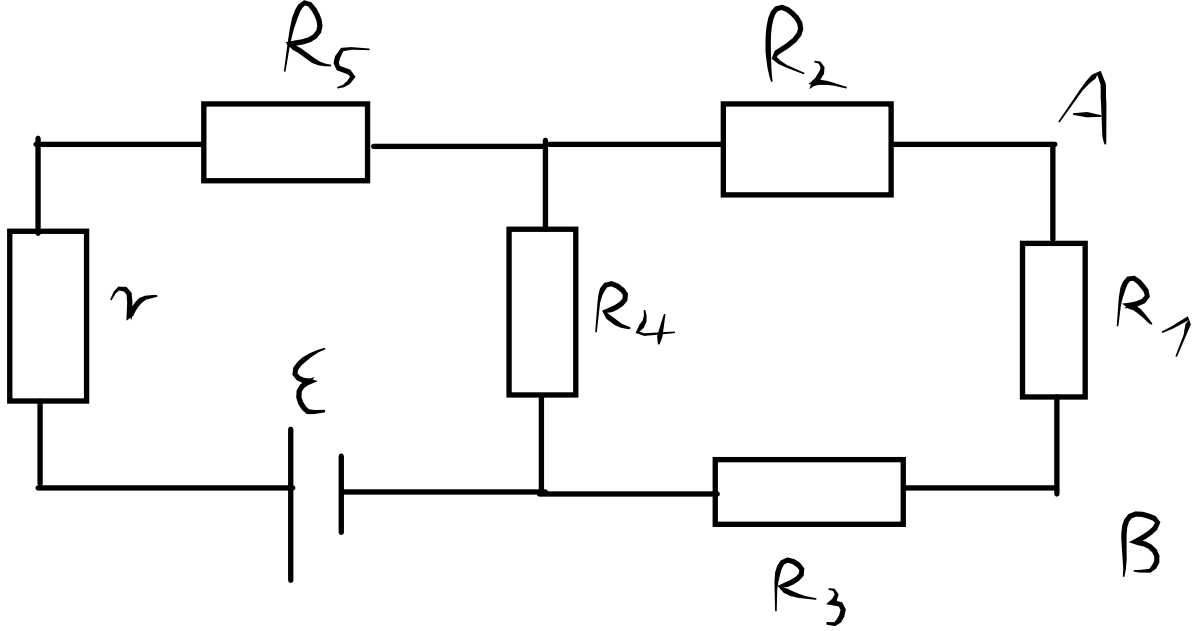
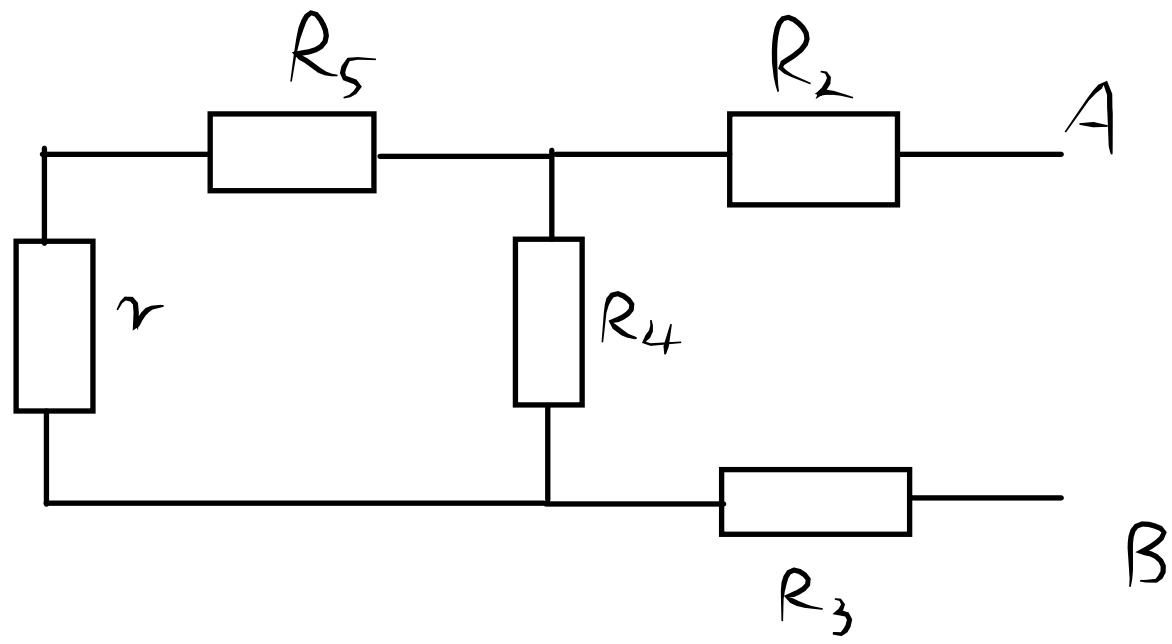
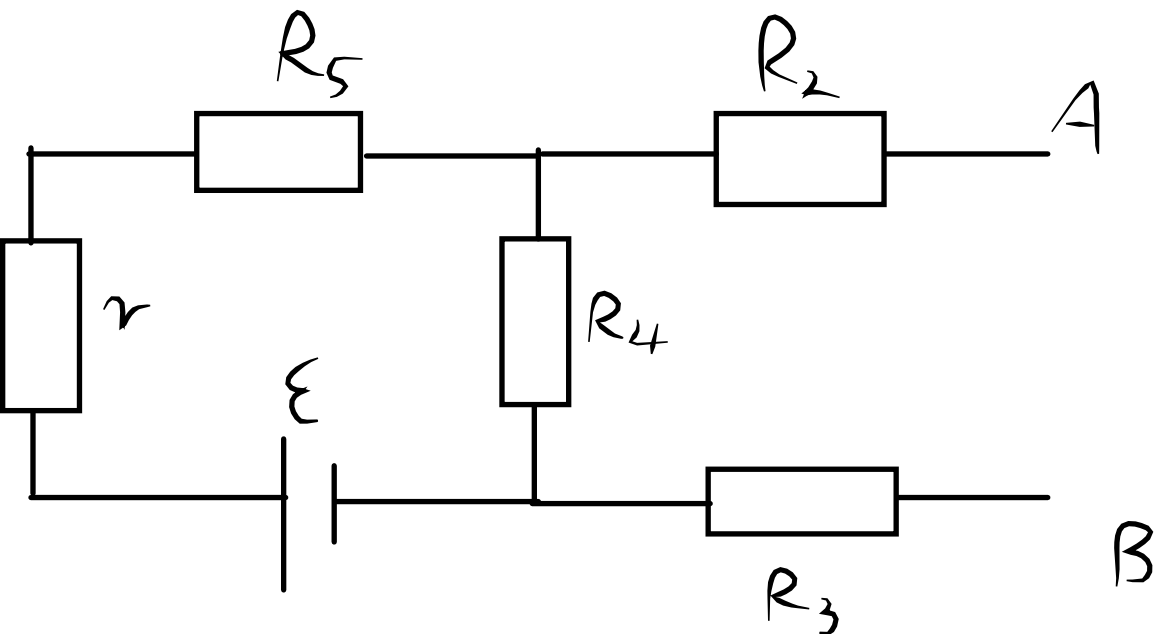




$$R_{th} = R_2 + R_3 + \frac{(r+R_5)R_4}{r+R_5+R_4}$$

$$r_z = R_{th} + R_1$$

$$\mathcal{J}_{R_1} = \frac{\mathcal{E}_w}{r_z}$$



$$\mathcal{E}_w = U_{R_4} = \frac{\mathcal{E}}{r+R_4+R_5} R_4$$