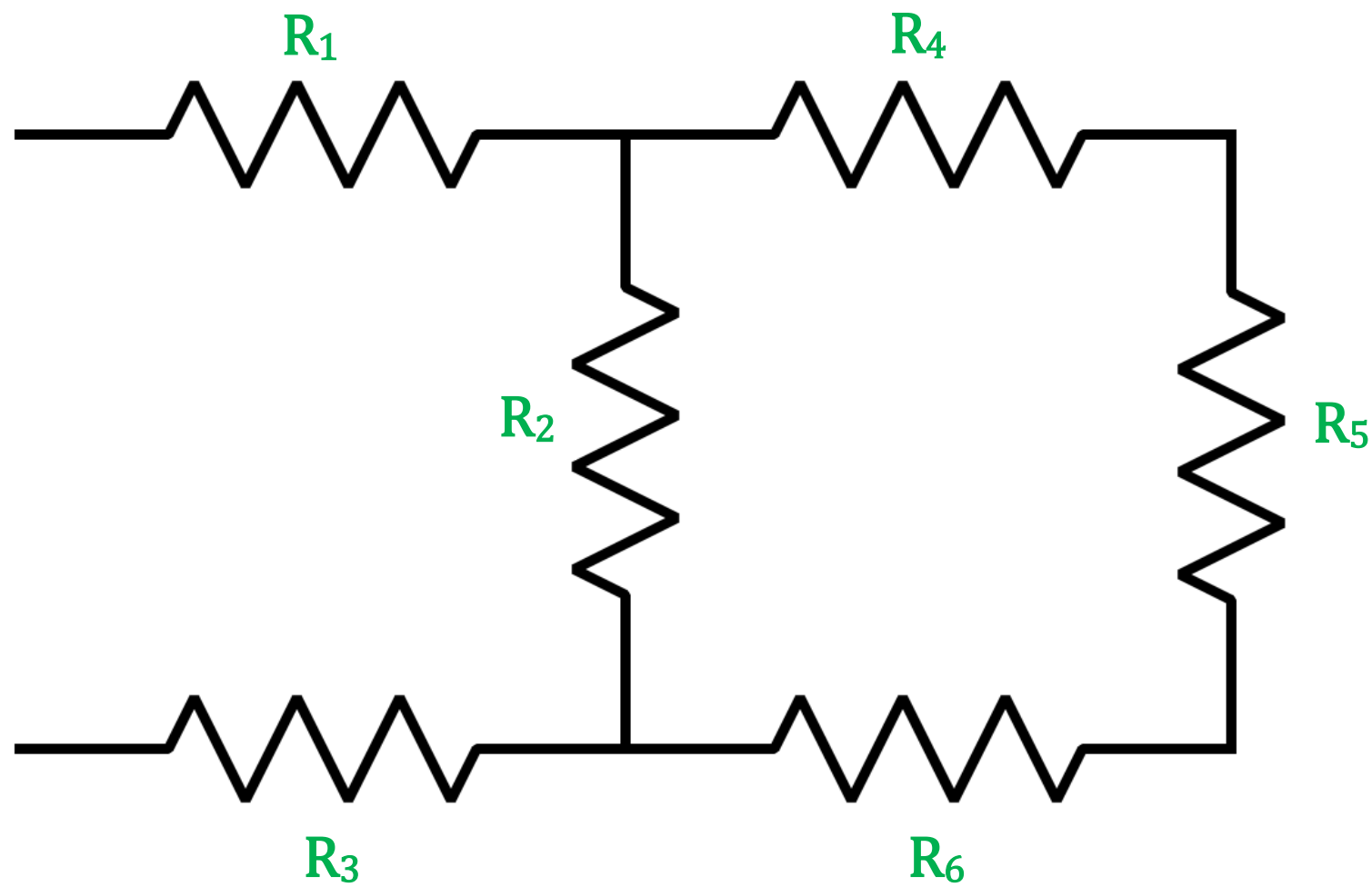
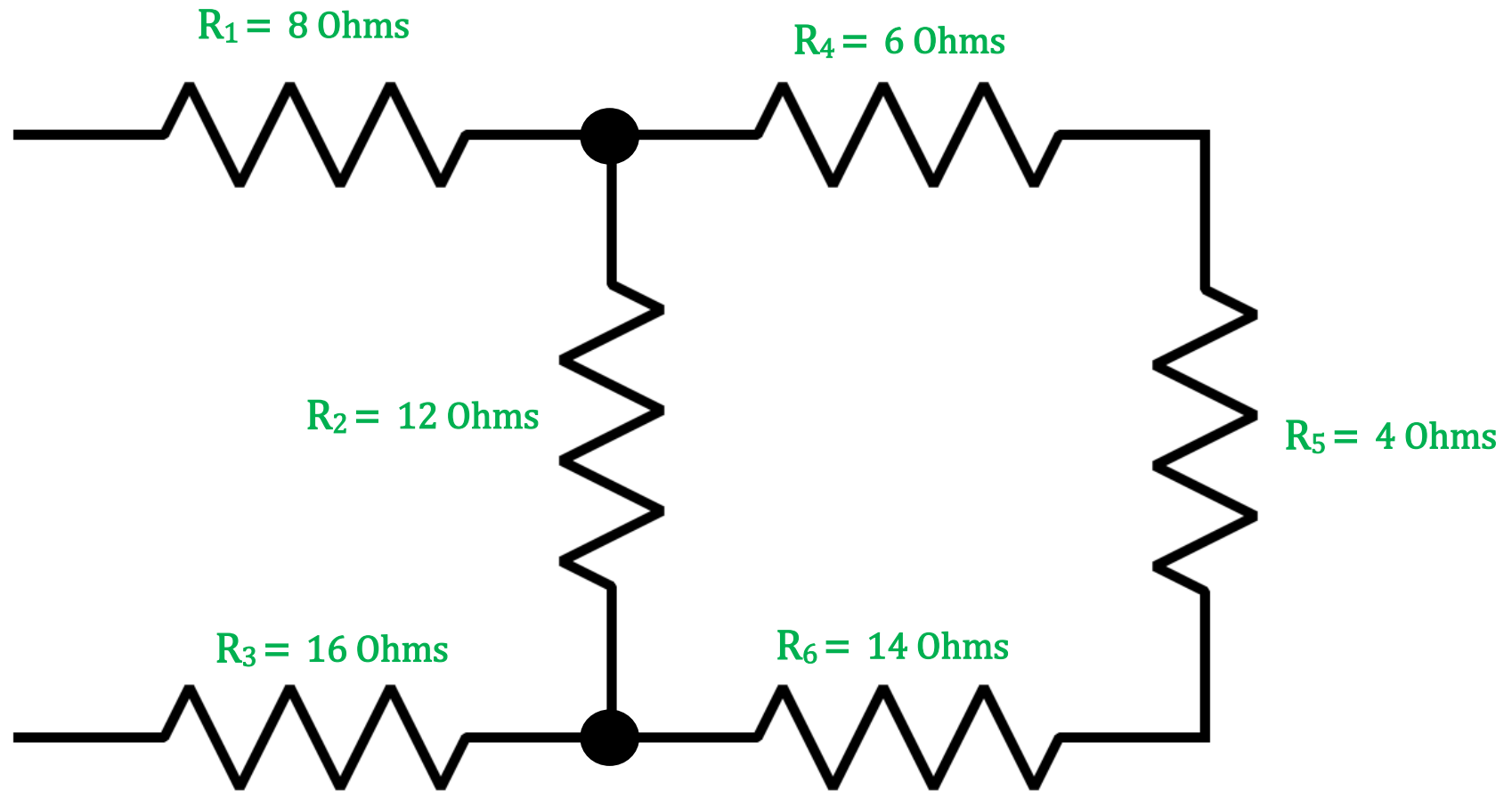
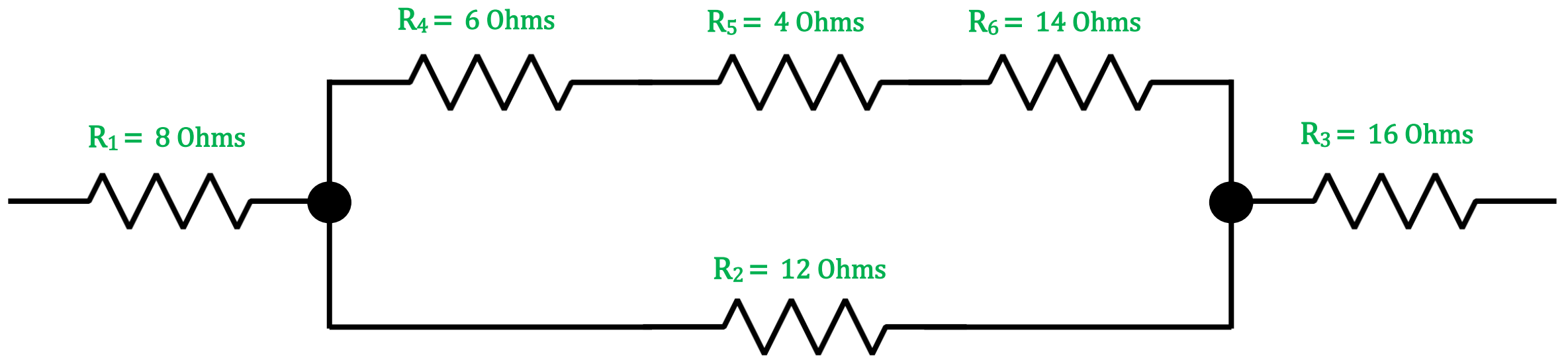


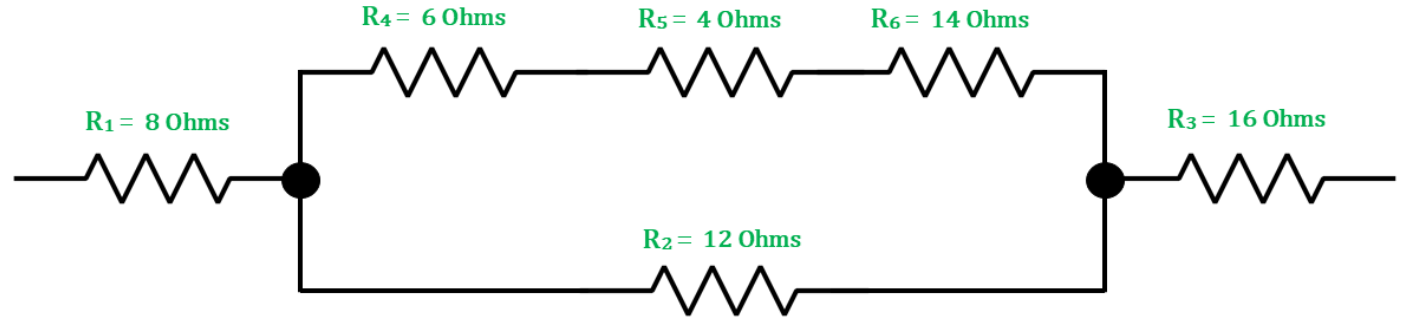
Resistance Calculation 4







$$R_{4,5,6} = 6 + 4 + 14 = 24 \text{ Ohms}$$



$$R_{2,4,5,6} = \frac{R_2 \times R_{4,5,6}}{R_2 + R_{4,5,6}} = \frac{12 \times 24}{12 + 24} = \frac{288}{36} = 8 \text{ Ohms} \quad R_{2,4,5,6} = 8 \text{ Ohms}$$

$$R_T = R_1 + R_{2,4,5,6} + R_3 = 8 + 8 + 16 = 32 \text{ Ohms}$$

$$R_T = 32 \text{ Ohms}$$