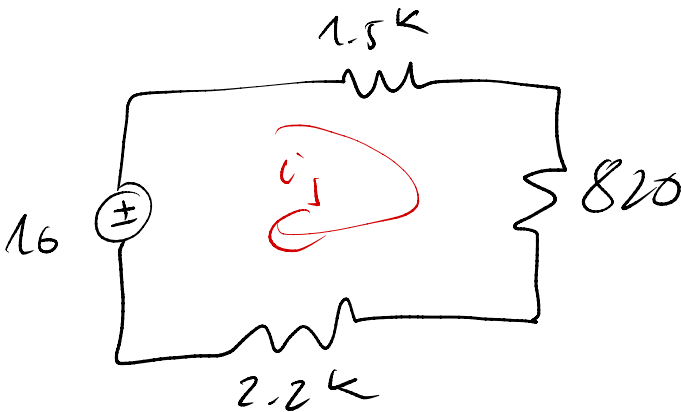




$$R_{eq} = 4650.92659$$

$$I_s = \frac{16^V}{R_{eq}} = 3.44$$



$$\text{KVL: } -16 + 1500i_s + 820i_s + 2200i_s = 0$$

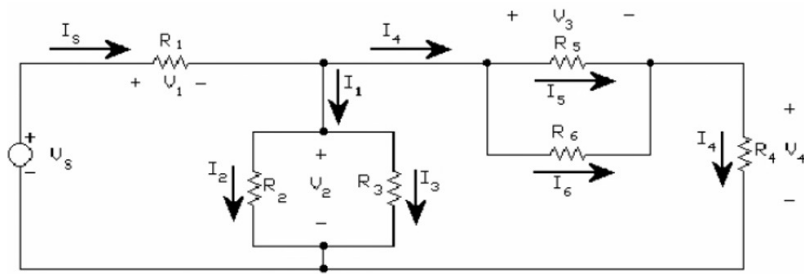
$$\Rightarrow i_s \approx 3.540 \text{ mA}$$

$$V_1 = i_s R_1 = 5.316$$

$$\% \text{ Diff} = \left| \frac{\text{Calculated} - \text{Measured}}{\text{Calculated}} \right| \times 100\%$$

$$\begin{cases} i_1 = 5.054 \text{ mA} \\ i_2 = 2.566 \text{ mA} \\ i_3 = 1.403 \text{ mA} \end{cases}$$

$$\begin{aligned} V &= 5600 (i_2 - i_3) \\ &= -13.94 \text{ V} \end{aligned}$$



$$I_5 = 12.12 \text{ mA} \quad I_6 = 8.144 \text{ mA}$$

$$I_4 = 7.407 \text{ mA}$$

$$U_1 = 9.773$$

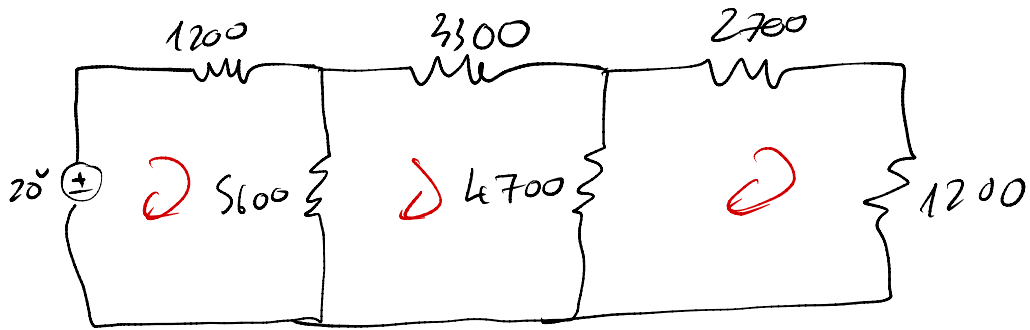
$$\frac{V - 20}{1200} + \frac{V}{1650} + \frac{V}{(R_5 \parallel R_6) + R_4}$$

$$V = 10.23 \text{ V}$$

2-9

3-11

4-15



$$-20 + 1200 i_a + 5600(i_a - i_b) = 0$$

$$5600(i_b - i_a) + 3300 i_b + 4700(i_b - i_c) = 0$$

$$4700(i_c - i_b) + 2700 i_c = 0$$

$$i_1 = 5.054 \text{ mA}$$

$$i_2 = 2.57 \text{ mA}$$

$$i_3 = 1.40 \text{ mA}$$

$$P_1 = 1.197$$

$$P_2 = 3.291$$

$$P_3 = 3.288$$

$$P_4 = 2.696$$

$$P_5 = 5.579$$

$$P_6 = 4.640 \text{ W}$$

