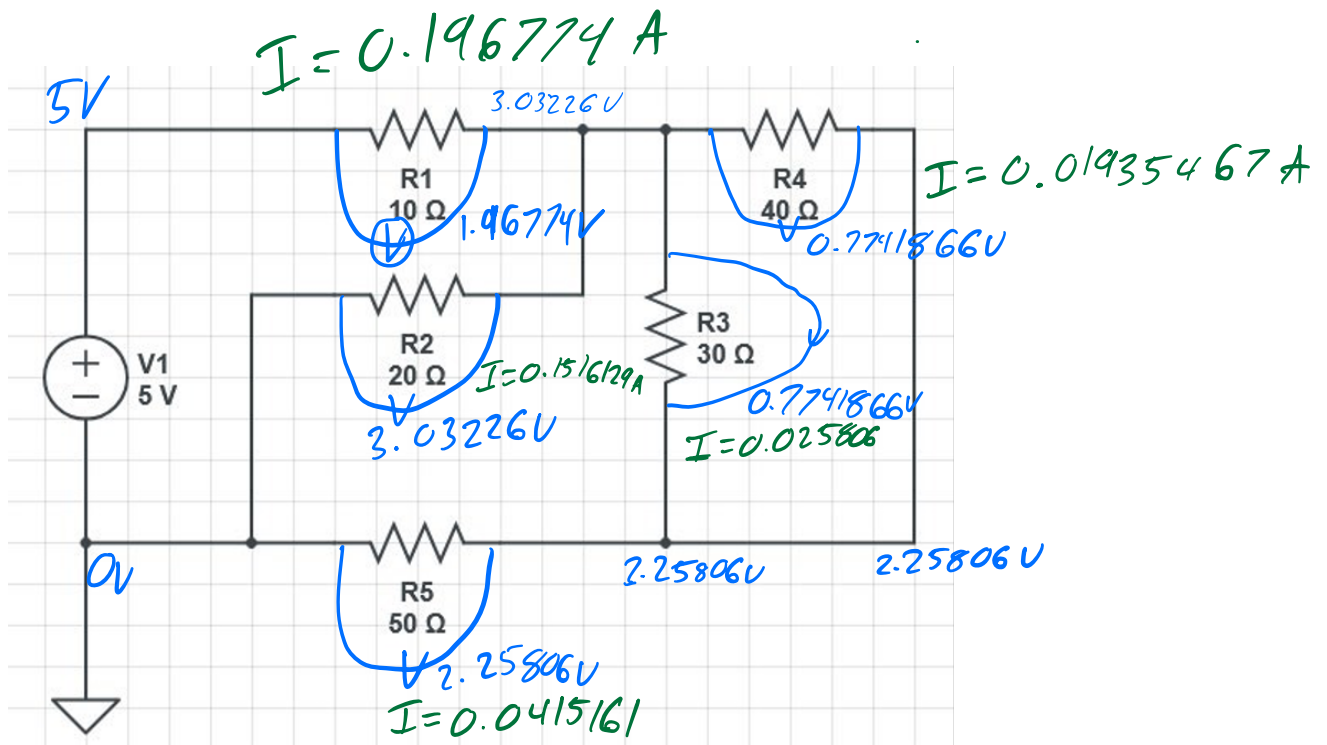


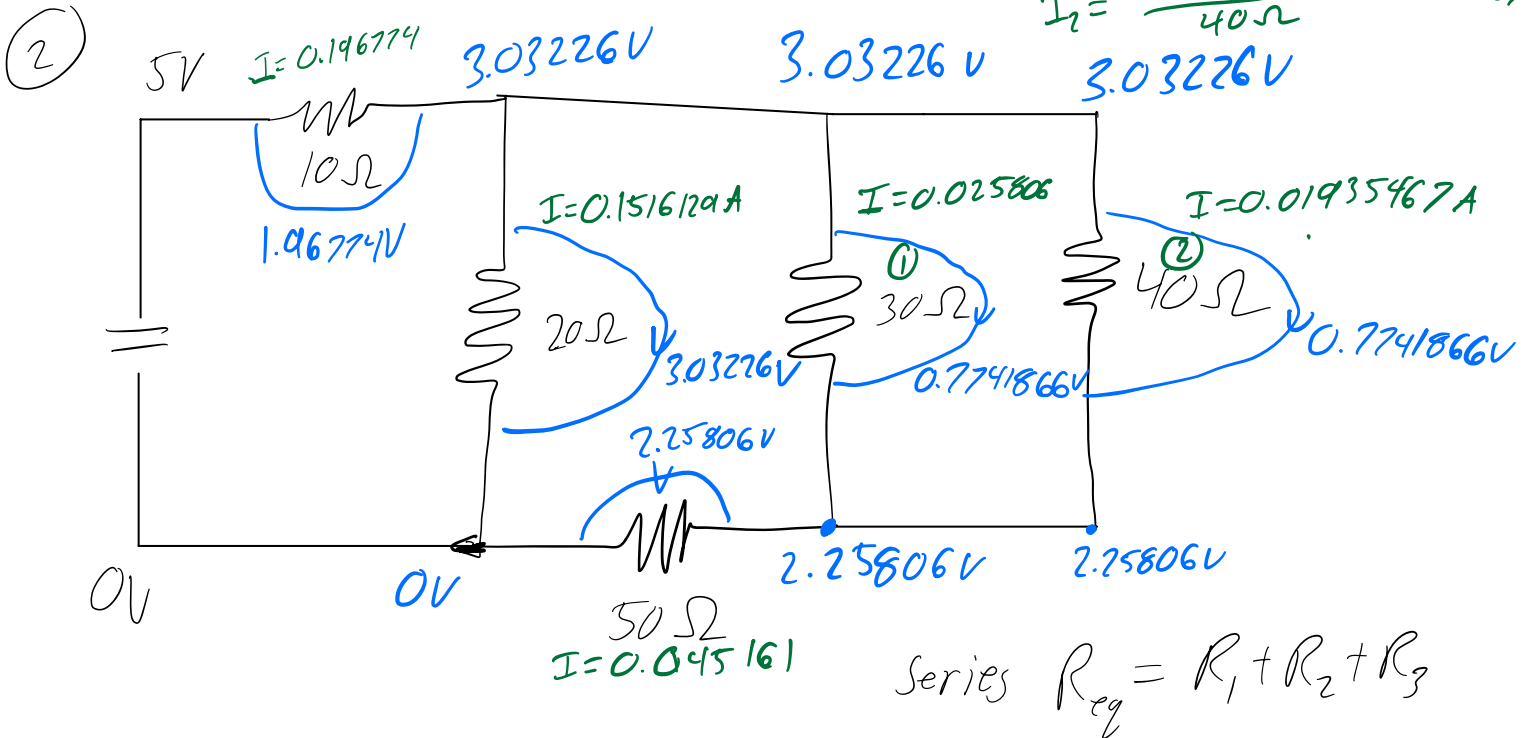
①



$$I = \frac{V}{R}$$

$$I_1 = \frac{0.7741866 \text{ V}}{30 \Omega} = 0.025806 \text{ A}$$

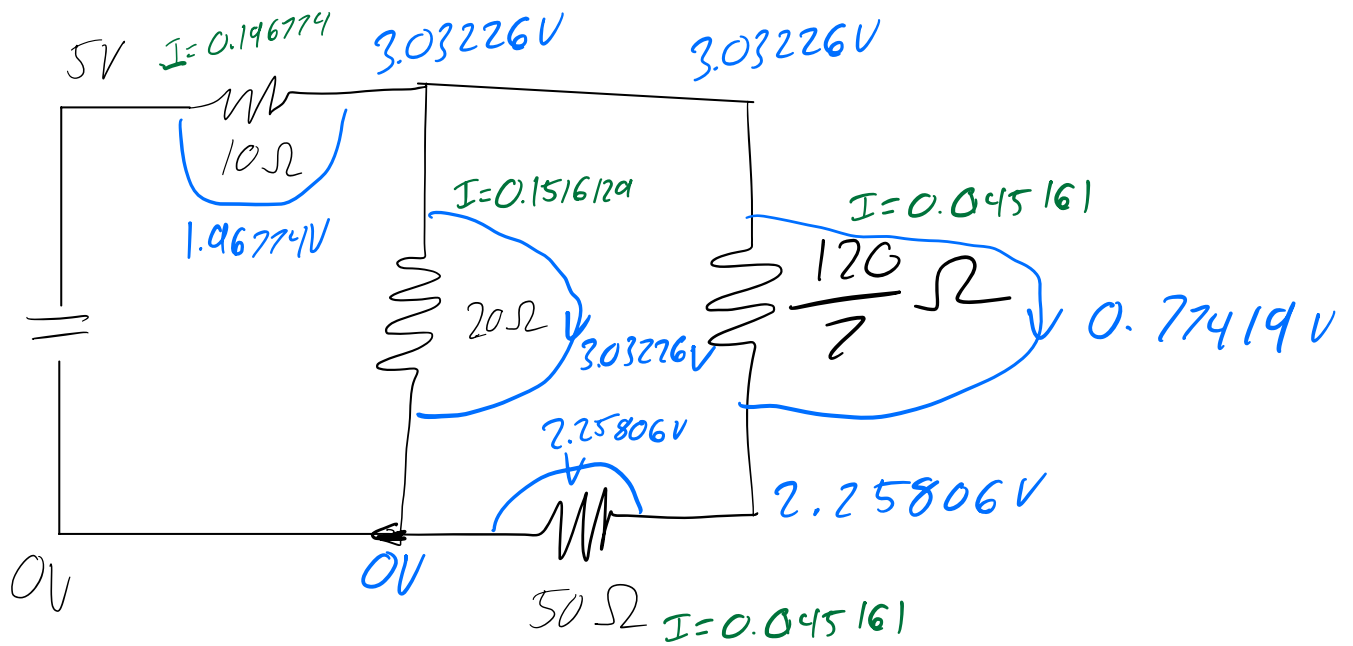
$$I_2 = \frac{0.7741866 \text{ V}}{40 \Omega} = 0.01935467 \text{ A}$$



Find I and V for every Parallel:

$$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

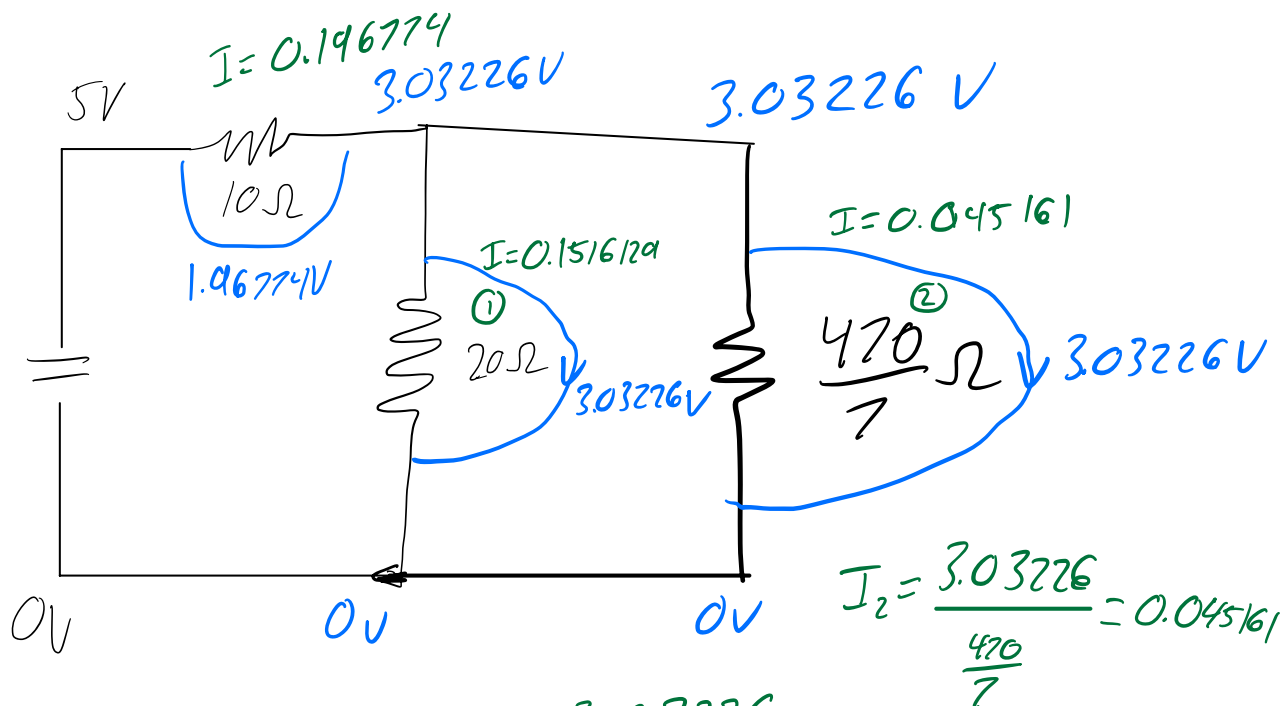
③



$$R_{eq} = \frac{1}{\frac{1}{30} + \frac{1}{40}} = \frac{120}{7} \Omega$$

$$\frac{4}{120} + \frac{3}{120} = \frac{7}{120}$$

④



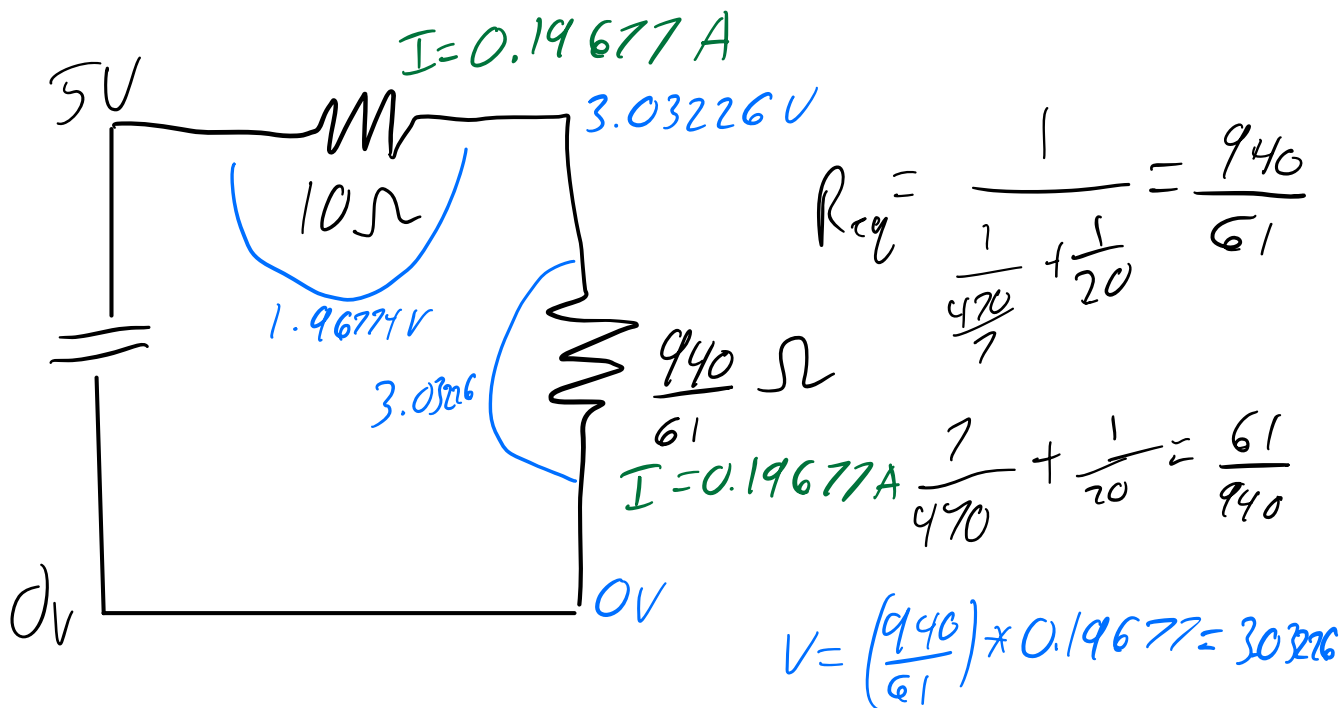
$$I = \frac{V}{R}$$

$$I_1 = \frac{3.03226}{20} = 0.1516129$$

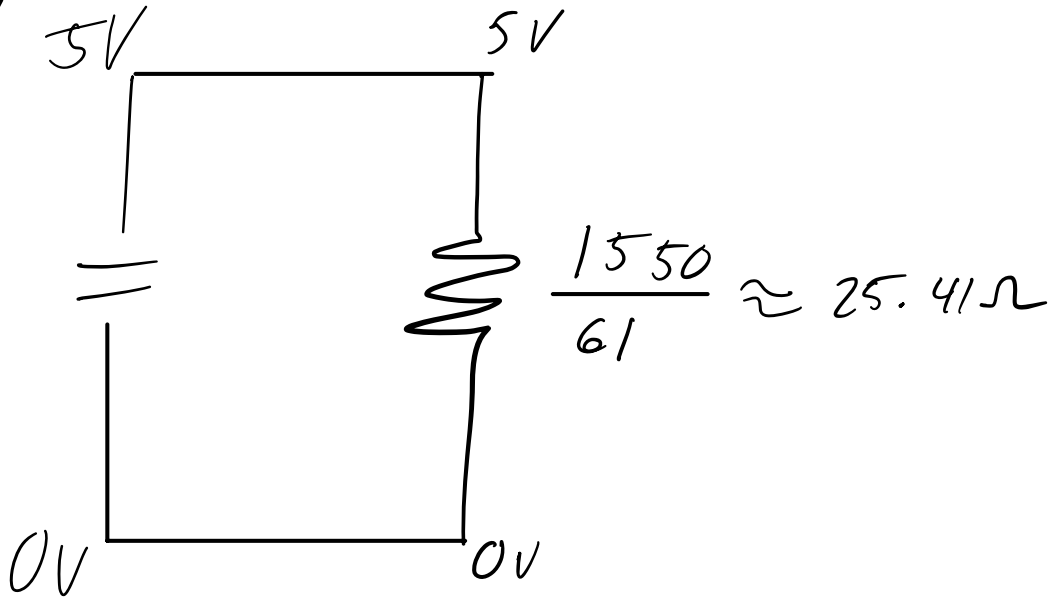
$$R_{eq} = \frac{120}{7} \Omega + \frac{350}{7} \Omega = \frac{470}{7} \Omega$$

$$V = (0.19677)(10) = 1.96774V$$

⑤



6.



$$R_{eq} = 10 + \frac{940}{61} = \frac{1550}{61} \approx 25.41 \Omega$$

$$V = IR$$

$$V = 5 \text{ V}$$

$$I_{total} = \frac{5}{25.41} = 0.19677 \text{ A}$$