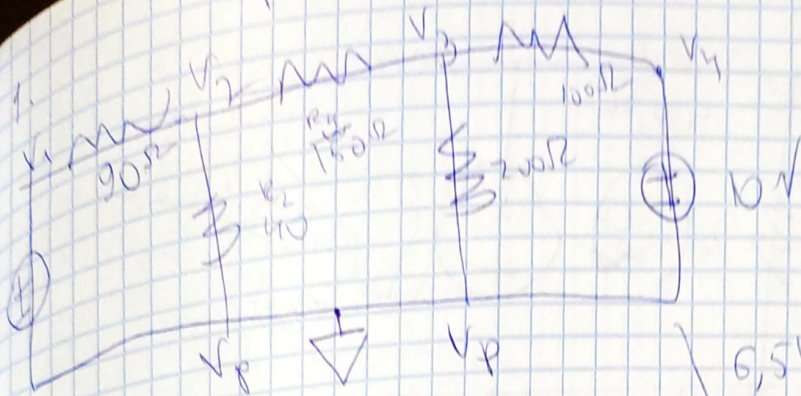


Post-Lab



$$V_n = 10V$$

$$V_1 = 5V$$

$$V_2 = V_1$$

$$\frac{V_1 - V_2}{90} = \frac{V_2 - V_3}{150} + \frac{V_2}{40}$$

$$\frac{5 - V_2}{90} = \frac{V_2 - V_3}{150} + \frac{V_2}{40}$$

$$\frac{10 - V_3}{100} + \frac{V_2 - V_3}{150} = \frac{V_3}{200}$$

$$\frac{5 - V_2}{90} - \frac{V_2}{40} = -\frac{10 - V_3}{100} + \frac{V_3}{200}$$

$$\frac{20 - 4V_2 - 9V_2}{360} = \frac{-20 + 2V_3 + V_3}{200}$$

$$18(-20 + 3V_3) = 10(20 - 13V_2)$$

$$-180 + 27V_3 = 100 - 65V_2$$

$$65V_2 + 27V_3 = 280$$

$$6,5V_2 + 27V_3 = 28$$

$$\frac{10 - V_3}{100} + \frac{V_2 - V_3}{150} = \frac{V_3}{200}$$

$$30 - 3V_3 + 2V_2 - 2V_3 = 1,5V_3$$

$$6,5V_3 - 2V_2 = 30$$

$$6,5V_3 - \frac{280}{3,25} = 30$$

$$\frac{21,25}{1,25} + 27V_3 = 97,5$$

$$18,625V_3 = 105,5$$

$$V_3 = \frac{105,5}{18,625} = 5,675$$

$$I_3 = \frac{4,852}{200} = 0,024A$$

$$I_2 = 0,021A$$

$$V_2 = 2,12V$$

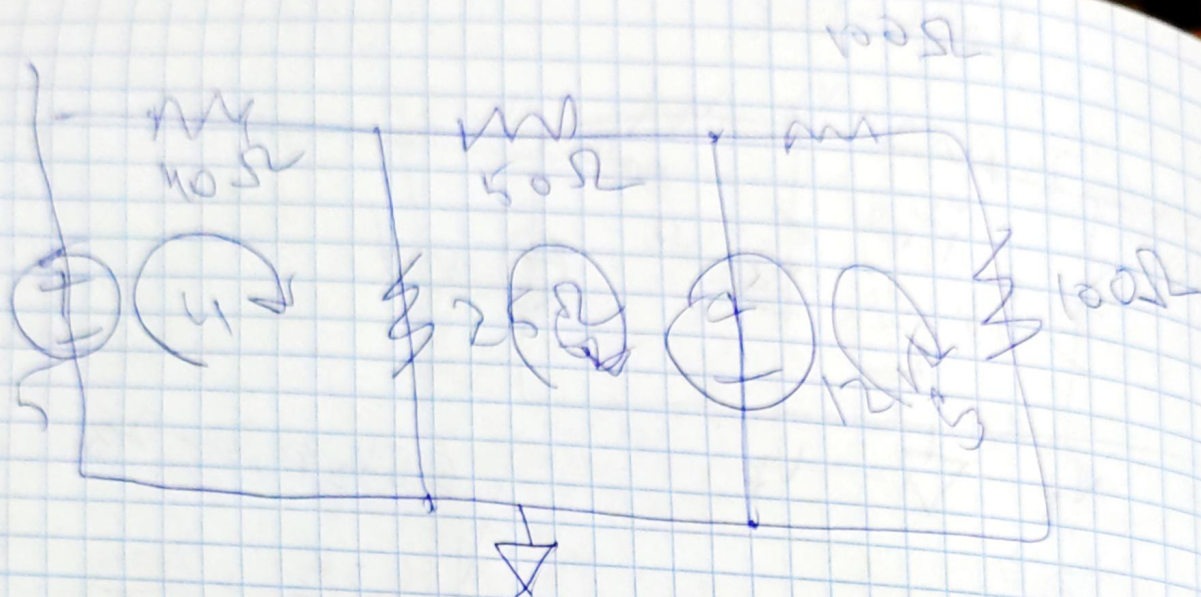
$$I_1 = \frac{5 - 2,12}{90} = 0,032A$$

$$I_4 = \frac{V_1 - V_3}{100} = \frac{10 - 5,675}{100}$$

$$0,042A$$

$$I_5 = 0,053A$$

2



$$40I_1 + 25I_1 - 25I_2 - 5 = 0$$

$$25I_2 - 25I_1 + 50I_2 + 12 = 0$$

$$100I_3 + 100I_3 - 12 = 0$$

$$I_3 = 0,06 \text{ A}$$

$$65I_1 - 25I_2 = 5$$

$$75I_2 - 25I_1 = -12$$

$$170I_1 = 3$$

$$I_1 = 0,0176 \text{ A}$$

$$I_2 = -0,155 \text{ A}$$

$$I_1 - I_2 = 0,172 \text{ A}$$