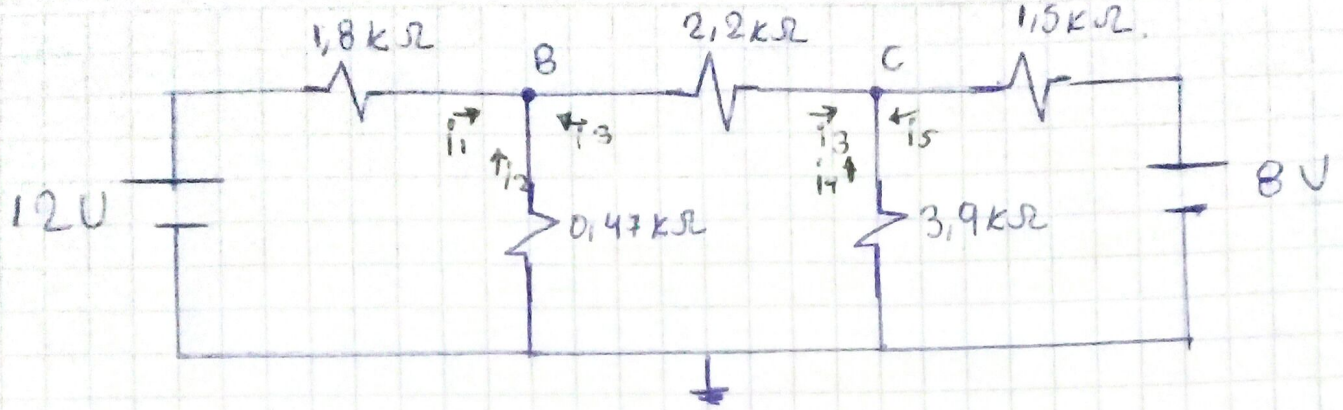

Κόμβος B

$$i_1 + i_2 + i_3 = 0$$

$$\frac{12 - V_B}{1,8} + \frac{0 - V_B}{0,47} + \frac{V_C - V_B}{2,2} = 0$$

$$\frac{12 - V_B}{1,8} - \frac{V_B}{0,47} + \frac{V_C - V_B}{2,2} = 0 \quad (1)$$

Κόμβος C $\quad i_3 + i_4 + i_5 = 0$

$$\frac{V_B - V_C}{2,2} - \frac{V_C}{3,9} + \frac{8 - V_C}{1,5} = 0 \quad (2)$$

Από τη σχέση (1)

$$12,408 - 1,034 V_B - 3,96 V_B + 0,846 V_C - 0,846 V_B = 0$$
$$1,8612$$

$$-5,84 V_B + 0,846 V_C + 12,408 = 0$$

$$V_B = 0,145 V_C + 2,12 \quad (3)$$

(3) en (2)

$$2,12 - \frac{0,855\,V_C}{2,2} - \frac{V_C}{3,9} + \frac{8 - V_C}{1,5} = 0$$

$$-5\,V_C + 12,402 - 3,3\,V_C + 68,64 - 8,58\,V_C = 0$$

$$-5\,V_C + 12,402 - 3,3\,V_C - 68,64 - 8,58\,V_C = 0$$

$$-16,88\,V_C = -81,04$$

$$V_C = 4,80\ V$$

Entonces.

$$V_B = 0,145(4,80) + 2,12$$

$$V_B = 2,81\ V$$