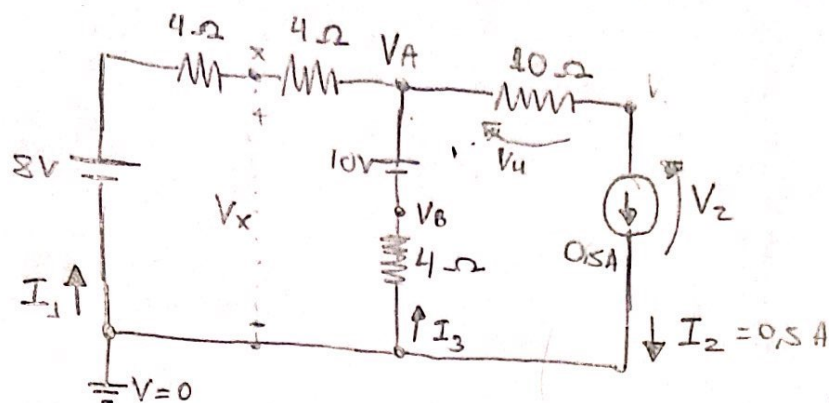


2-



1-

no A

$$I_1 + I_3 = I_2$$

$$I_1 + I_3 = 0,5A$$

$$I_1 = \frac{8 - V_a}{4}$$

$$I_3 = \frac{-V_b}{4}$$

$$I_2 = \frac{V_a - V_2}{10} = 0,5$$

2-

$$V_a - V_b = 10$$

$$V_a = 10 + V_b$$

3-

$$2 - \frac{V_a}{4} - \frac{V_b}{4} = 0,5$$

$$\frac{V_a + V_b}{4} = 1,5$$

$$V_a + V_b = 6$$

$$(10 + V_b) + V_b = 6$$

$$2V_b = 6 - 10$$

$$2V_b = -4$$

$$V_b = -2$$

$$V_a = 10 + V_b$$

$$V_a = 8$$

4-

$$I_1 = \frac{8 - V_a}{4} = \frac{0}{4}$$

$$I_1 = 0A$$

5-

$$V_a - V_2 = 5$$

$$8 - V_2 = 5$$

$$V_2 = 3,0V$$

6-

$$I_1 = \frac{8 - V_x}{4} \Rightarrow 2 - \frac{V_x}{4}$$

$$0 = 2 - \frac{V_x}{4} \Rightarrow 2 = \frac{V_x}{4}$$

$$V_x = 8,0V$$