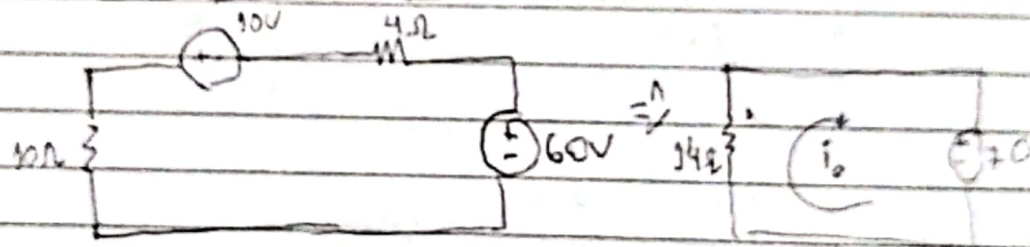
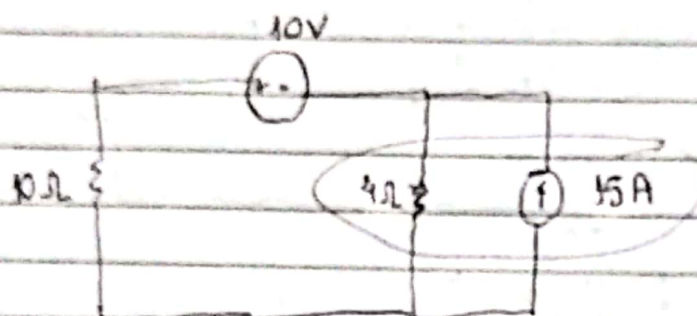
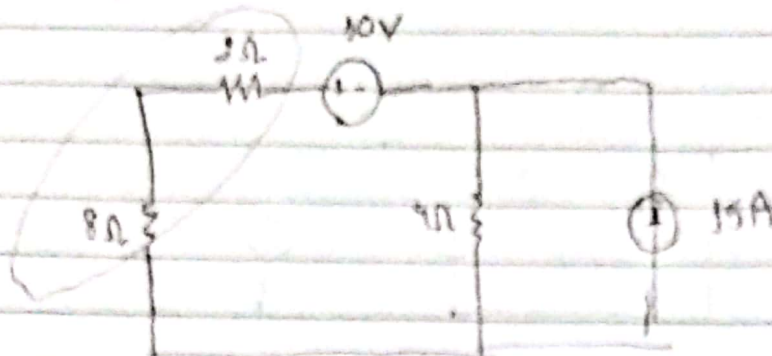


Carlos Linlquin Jironda Santos (20150465)

Questão 1.



$$+70 + 14i_0 = 0$$

$$i_0 = \frac{-70}{14}$$

$$i_0 = -5A$$

$$P = V \cdot i \text{ ou } P = i^2 R$$

$$P_{70} = 70(-5) = -350W \text{ (Fornecida)}$$

$$P_{14} = (-5)^2 \cdot 14 = 350W \text{ (Gerada)}$$

$$P_{\text{total}} = P_{70} + P_{14}$$

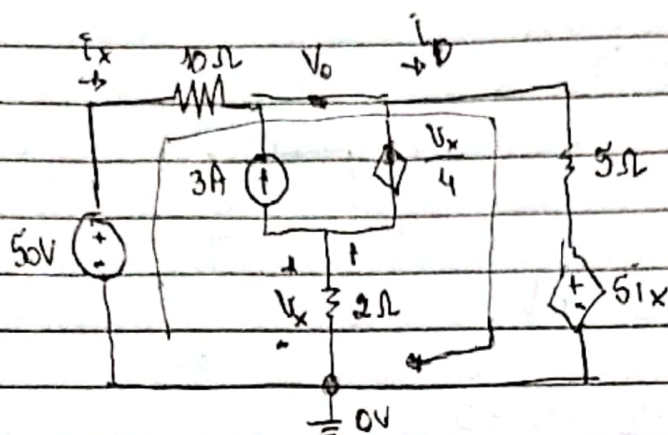
$$= -350 + 350$$

$$P_{\text{total}} = 0W$$

S T Q Q S S D
L M M J V S D

Carlos L. A. Santos (20150465)

Questão 2.



$$-\frac{V_x}{2} = 3 + \frac{V_x}{4}$$

$$-0,5V_x = 3 + 0,25V_x$$

$$0,75V_x = -3$$

$$V_x = -4V$$

$$i_x + 3 + \frac{V_x}{4} = i_0$$

$$i_0 = i_x + 2$$

$$-50 + 10i_x + 5i_0 + 5i_x = 0$$

$$-50 + 15i_x + 5i_0 + 10 = 0$$

$$20i_x = 40$$

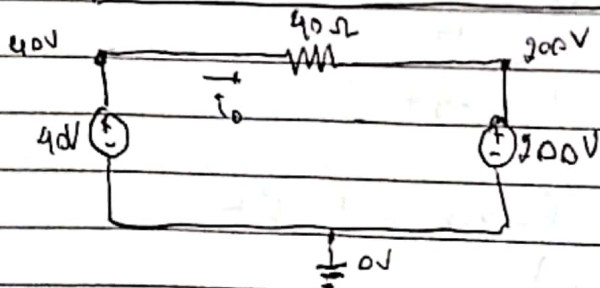
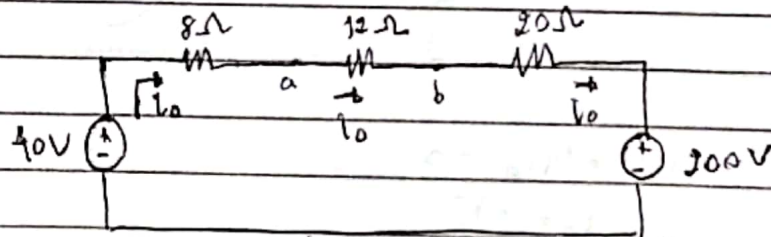
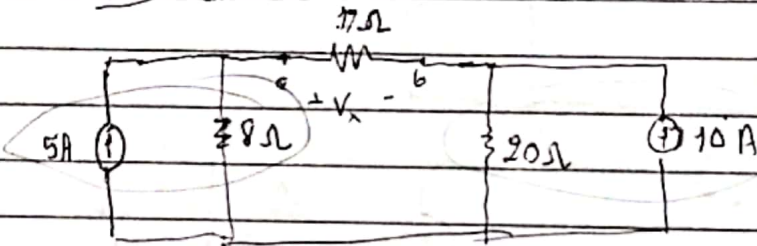
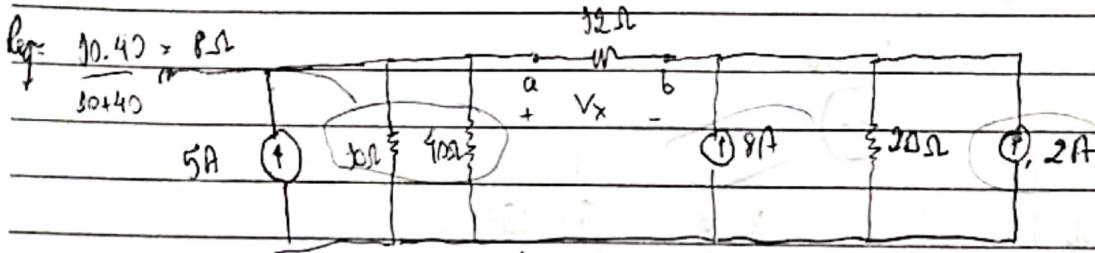
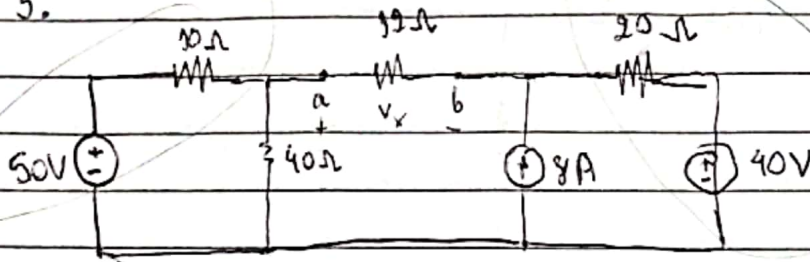
$$i_x = 2A$$

$$i_x = 2A$$



Carlos Luis Gomes A. Santos (2015 04 65)

Questão 3.



$$i_0 = \frac{200 - 40}{40}$$

$$i_0 = -4 \text{ A}$$

$$V_x = (12)(i_0)$$

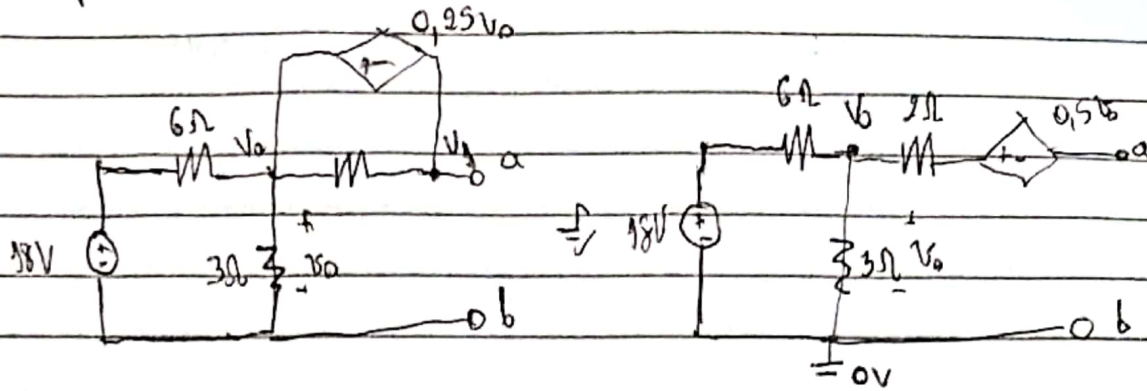
$$V_x = 12 \cdot 4$$

$$V_x = -48 \text{ V}$$



Carlos Luizqueir A-Santos (20190465)

Questão 4.



$$\frac{18 - V_0}{6} + \frac{0,25 V_0}{3} + \frac{V_0 - V_0}{3} + \frac{V_0}{3} = 0$$

$$\frac{18 - 6}{6} + \frac{1,5}{2} + \frac{6 - V_0}{2} + \frac{6}{3} = 0$$

$$\frac{6 - V_0}{2} = 2 - 2 + 1,5$$

$$6 - V_0 = 3$$

$$V_0 = 6 - 3 = 3V$$

$$\frac{18 - V_0}{6} + \frac{V_0}{3} = 0$$

$$\frac{18 - V_0}{6} = \frac{V_0}{3} \quad (\div 6)$$

$$18 - V_0 = 2V_0$$

$$3V_0 = 18$$

$$V_0 = 6V$$

$$\therefore V_{Th} = V_0 = 3V //$$