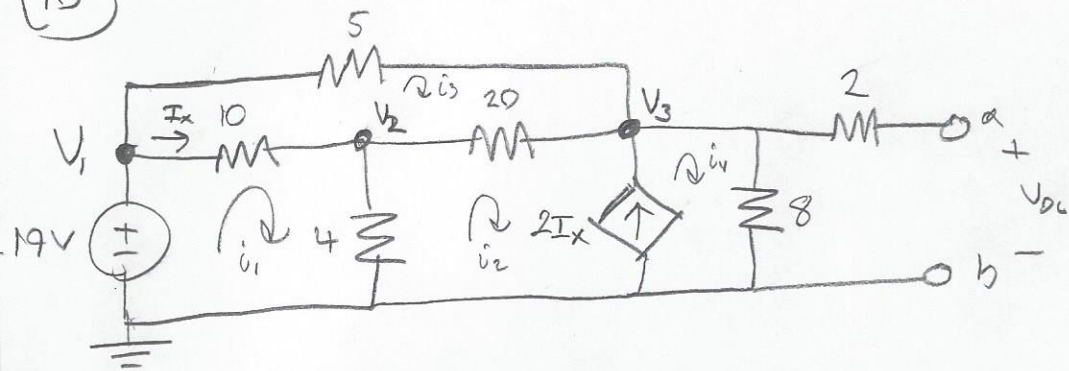
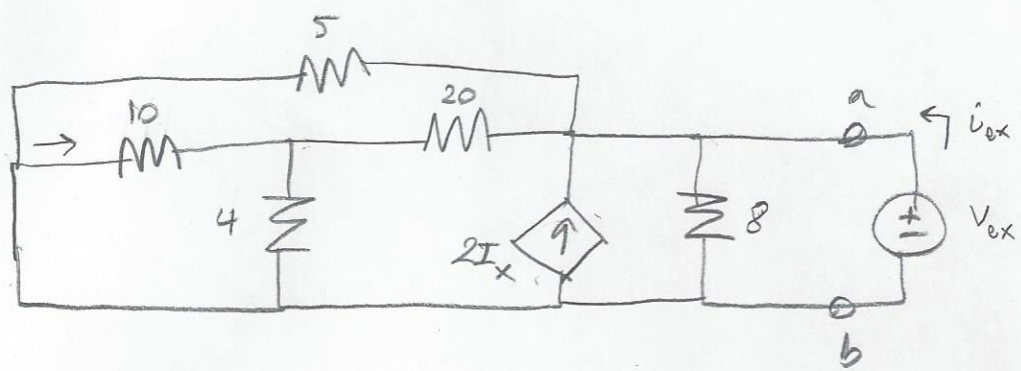


10



$i_1 - i_3$



$$i_1 - i_3 = I_x$$

$$i_4 - i_2 = 2I_x$$

$$1.52 - 4.16 = 2I_x$$

$$I_x = -1.82A$$

$$14i_1 - 4i_2 - 10i_3 = 19$$

$$i_1 = 5.34$$

$$-4i_1 + 24i_2 - 20i_3 - i_4 = 0$$

$$i_2 = 4.16$$

$$-10i_1 - 20i_2 + 35i_3 = 0$$

$$i_3 = 3.90$$

$$-i_2 + 8i_4 = 0$$

$$i_4 = 0.52$$

$$i_1 - i_3 = I_x$$

$$V_{oc} = 8(0.52)$$

$$V_{oc} = \boxed{V_{th} = 4.16V}$$