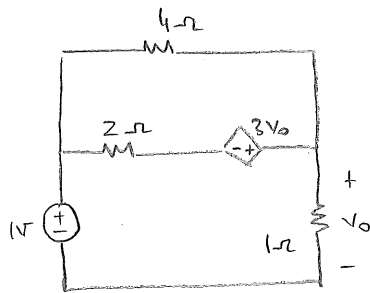
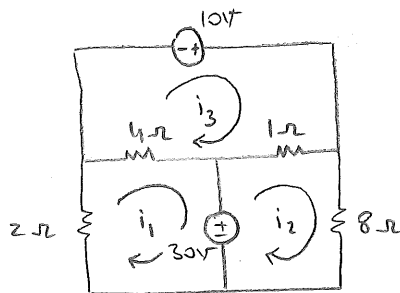


PROBLEM SET III

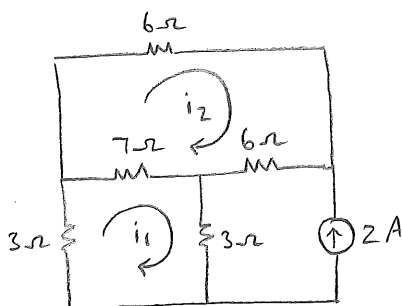
1

Using mesh analysis find V_o .

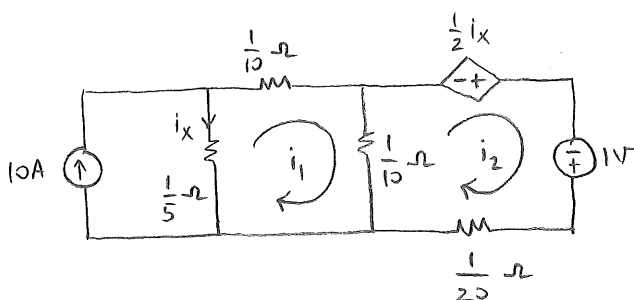
2

Find i_1, i_2, i_3 .

3

Find i_1, i_2 , and the power dissipated on the 7Ω resistor.

4

Find i_1, i_2 , and the power supplied / absorbed by the dependent source

KEY

$$\underline{1} \quad v_o = 3V$$

$$\underline{2} \quad i_1 = -7A, \quad i_2 = 3A, \quad i_3 = -3A$$

$$\underline{3} \quad i_1 = -1A, \quad i_2 = -1A, \quad P_{TL} = 0$$

$$\underline{4} \quad i_1 = 9A, \quad i_2 = 16A, \quad P_o = 8W \text{ (supplied)}$$