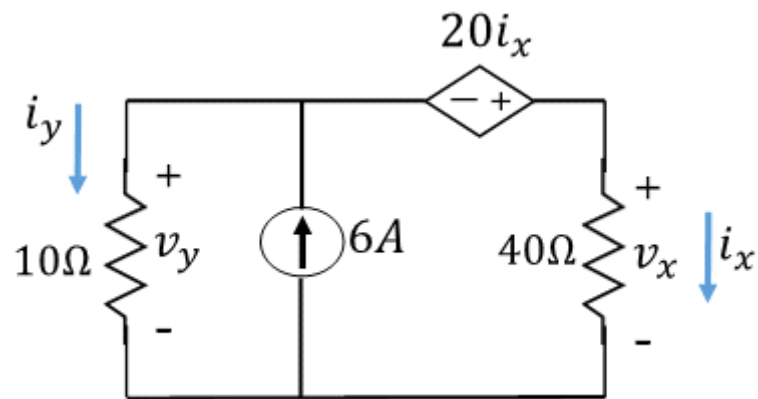


Exercise 3.5, Q1

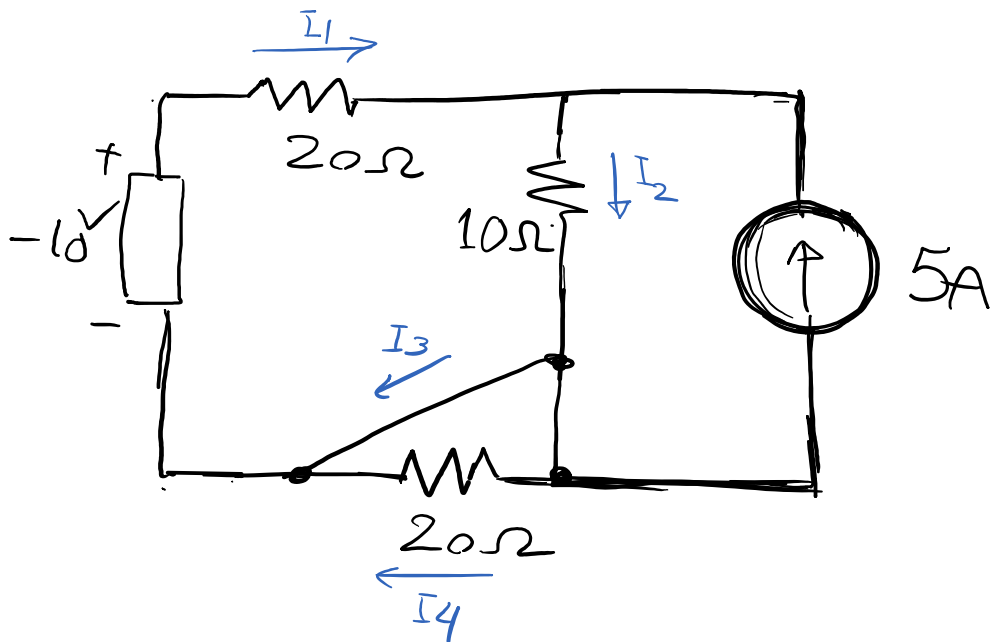
a) Find i_x and i_y .

b) Calculate the power of the Independent current source, P_{6A} .



Exercise 3.5, Q2

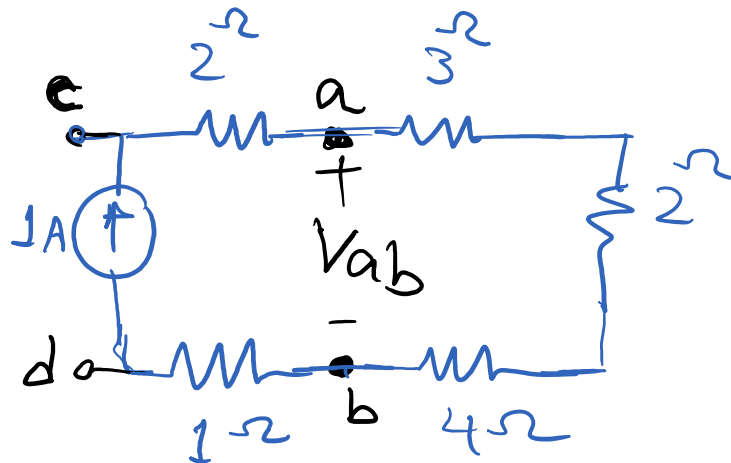
Find the values of I_1 , I_2 , I_3 , and I_4 .



Exercise 3.5, Q3

For the following circuit,

- Find the potential difference between nodes a and b, v_{ab}
- Find the potential difference between nodes a and b, v_{cd}
- We connect a resistor $R=12\ \Omega$ between terminals c and d. what is the current in R



Exercise 3.5: R-Equivalent with dependent Source

- Find R_{eq} seen from terminals a and b.
- We connect a 2A current source to terminal a,b. Find the power P_{2A} .

