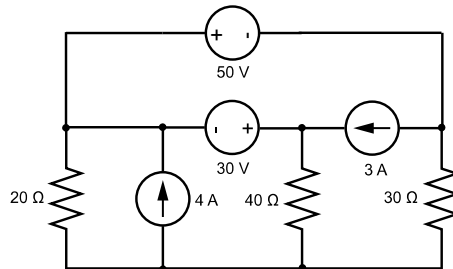


## ENSC3021 Tutorial Problems 1A

27 February 2019

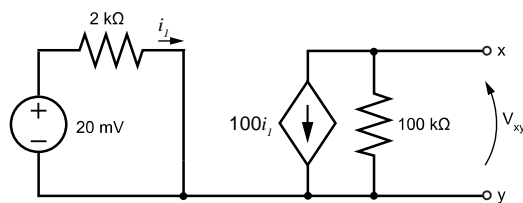
Martin T. Hill

**Question 1.** In the circuit of figure 1 find the power dissipated by the 40 ohm resistor.



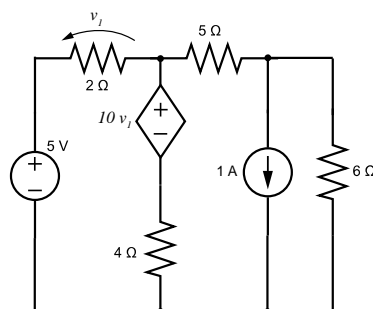
**Figure 1.**

**Question 2.** Find the Thevenin and Norton equivalent circuits with respect to the terminals x-y, for the network of figure 2.



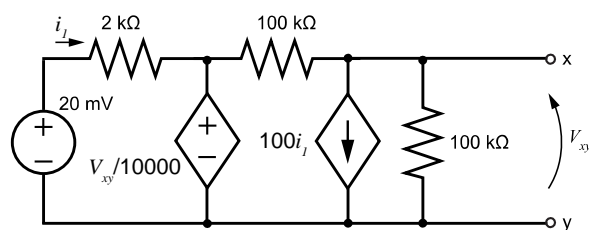
**Figure 2.**

**Question 3.** In the circuit of figure 3 find the potential difference across the 2 ohm resistor,  $v_I$ . Try a couple of different methods if you have time.



**Figure 3.**

**Question 4.** Find the Thevenin and Norton equivalent circuits with respect to the terminals x-y, for the network of figure 4.



**Figure 4.**