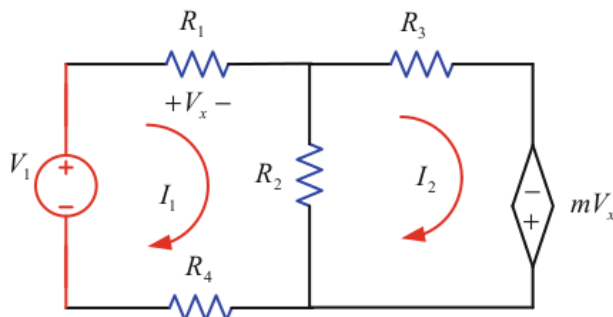
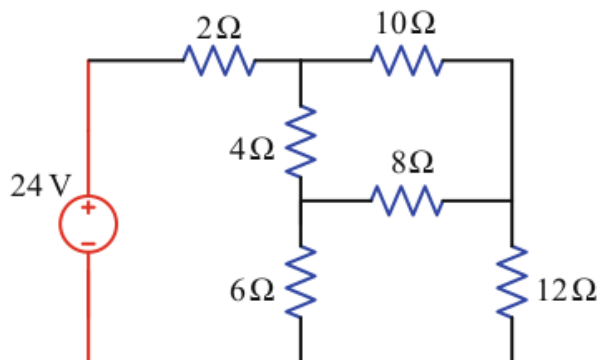


PH3104 Problem Set 2

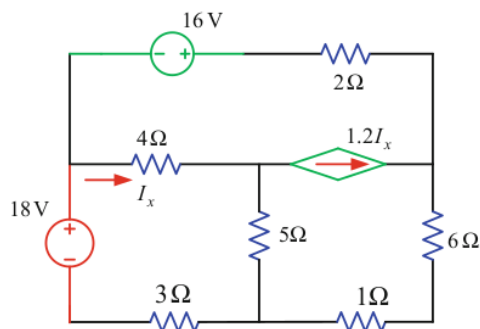
Q 1) Use the mesh method to find the current through the resistors R_2 in the circuit below (here m is a fixed number):



Q 2) Find the current through the $12\ \Omega$ resistor in the circuit below by using Thévenin's theorem.



Q 3) Use Norton's theorem to find the current through the $6\ \Omega$ resistor in the circuit below:



Q 4) Find the value of R in the circuit below which will lead to the maximum power transferred to it, as well as this maximum power.

