Introduction to circuit analysis
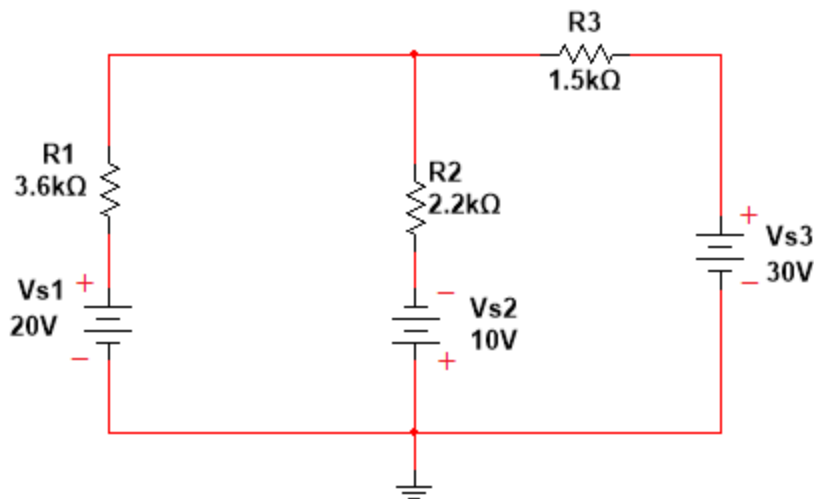
Homework 7 – Mesh Analysis

Instructions:

- YOU HAVE TO SHOW ALL WORK IN ORDER TO RECEIVE FULL CREDIT
- All answer must be in engineering notation rounded off to the hundredth

Question 1) For the following circuit, use mesh analysis to solve for the following:

Mesh Equation i_1 _____   Mesh Equation i_2 _____

Mesh current i_1 _____

Mesh current i_2 _____

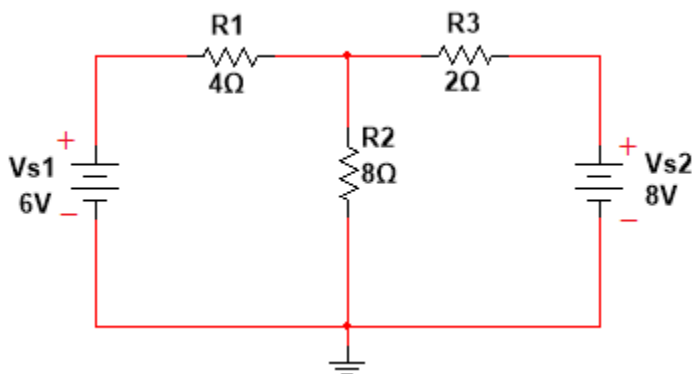I_{R1} _____

I_{R2} _____

I_{R3} _____

V_{R1} _____

V_{R2} _____

V_{R3} _____

Question 2) For the following circuit, use mesh analysis to solve for the following:

Mesh Equation i_1 _____   Mesh Equation i_2 _____

Mesh current i_1 _____

Mesh current i_2 _____

I_{R1} _____

I_{R2} _____

I_{R3} _____

V_{R1} _____
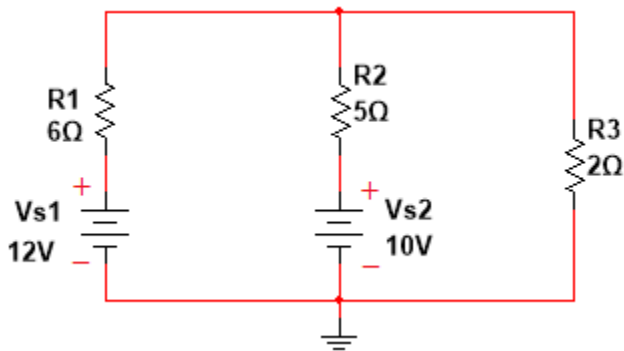
V_{R2} _____

V_{R3} _____

Question 3) For the following circuit, use mesh analysis to solve for the following:

Mesh Equation i_1 _____ Mesh Equation i_2 _____

Mesh current i_1 _____

Mesh current i_2 _____

I_{R1} _____

I_{R2} _____

I_{R3} _____

V_{R1} _____

V_{R2} _____

V_{R3} _____

--- **HOMEWORK ENDS HERE** -------------------------------------