

Student's Name:

Introduction to circuit analysis

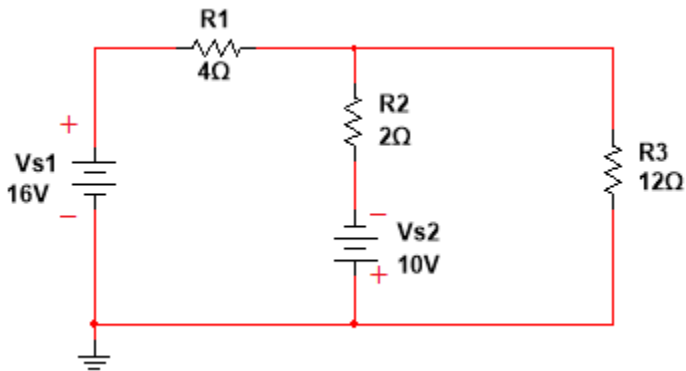
Homework 6 – Source Conversion and Superposition Theorem

Instructions:

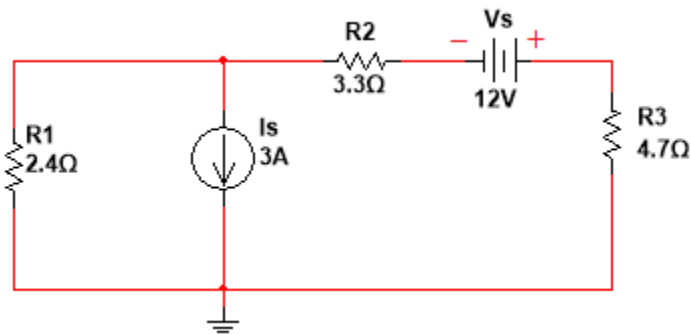
- YOU HAVE TO SHOW ALL WORK IN ORDER TO RECEIVE FULL CREDIT
- All answer must be in engineering notation rounded off to the hundredth

----- Homework Starts Here -----

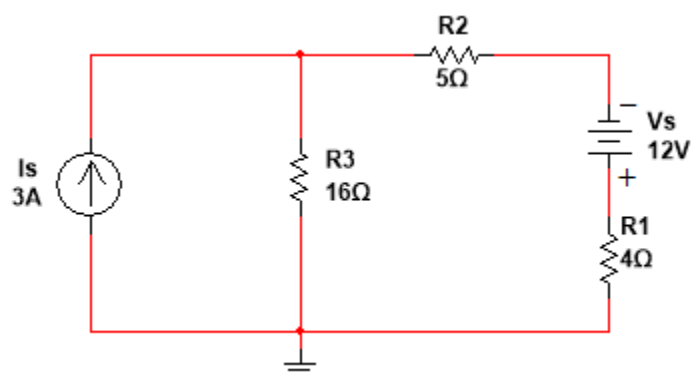
1) Use **superposition theorem** to the voltage and current across R_1



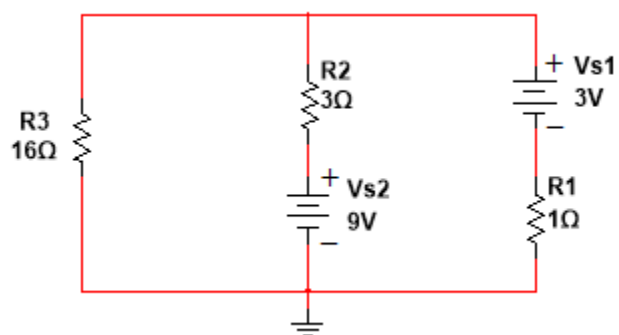
2) Use **superposition theorem** to the voltage across R_3



3) Use **source conversion** to find the voltage and current across R_3



4) Use **source conversion** to find the current and voltage through R_1



----- Homework Ends Here -----