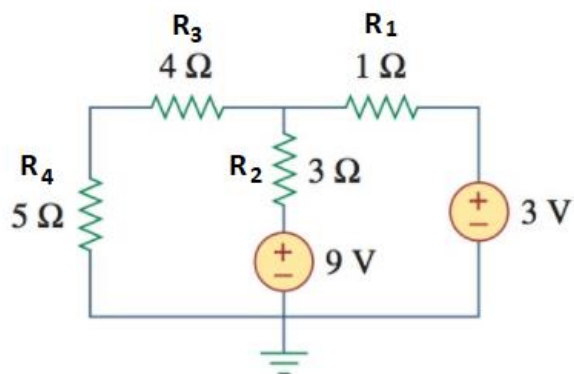**Introduction to circuit analysis**
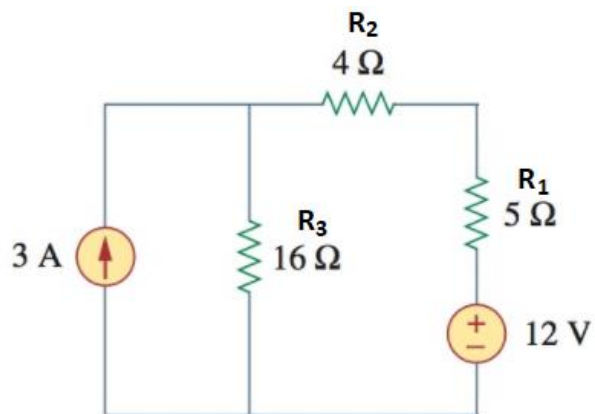*Homework 6 – Circuit theorems: source transformation and superposition*

Instructions:

- You have to show all work in order to receive full credit
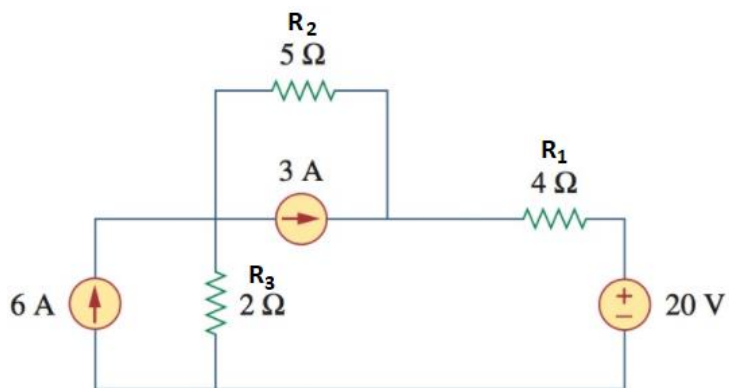- All answer must be in engineering notation rounded off to the hundredth

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1) (28 pts) Use *superposition theorem* to the voltage across **R₁**
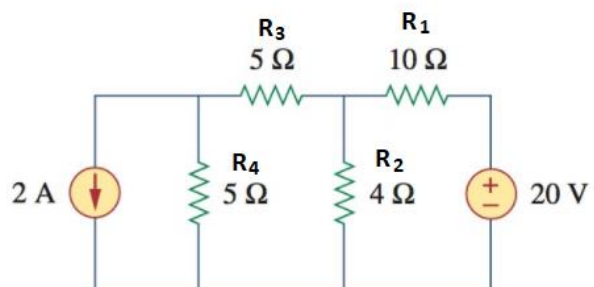

2) (28 pts) Use *superposition theorem* to the voltage across **R₃**

3) (20 pts)Use *source conversion* to find the voltage across R_1

4) (24 pts) Use *source conversion* to find the current through R_1

----------------Use *source conversion*--------------- Homework Ends Here ---