Student's Name:

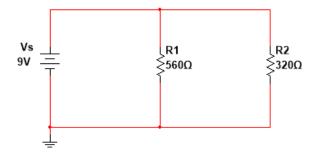
Introduction to circuit analysis

Homework 4 – Parallel Circuit

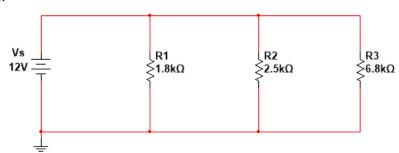
Instructions:

- YOU HAVE TO SHOW ALL WORK IN ORDER TO RECEIVE FULL CREDIT
- All answer must be in engineering notation rounded off to the hundredth
- Box or circle the answers.
- 1. Find the total resistance for each configuration parallel circuit

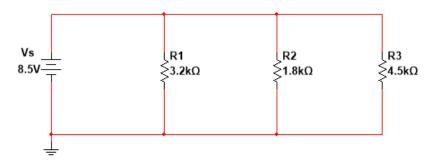
a.



b.

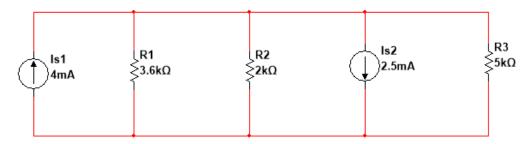


2. For the following parallel circuit



- a. Find the total resistance
- b. Find the current through each resistor
- c. Find the power delivered to each resistor
- d. Calculate the power delivered by the source

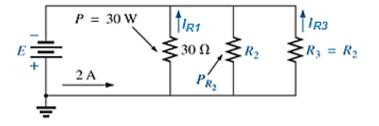
3. For the following circuit



- a. Find the total resistance
- b. Find the total current and voltage
- c. Find the current through each resistor

4. Find the unknown quantities for	the following parallel of	circuit
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- a. I_{R1}, current through R1 _____
- b. I_{R3}, current through R3_____
- c. Resistance at R₂
- d. Resistance at R₃
- e. Power dissipation at R2,P_{R2}_____
- f. Voltage source, E _____



------HOMEWORK 4 ENDS HERE ------