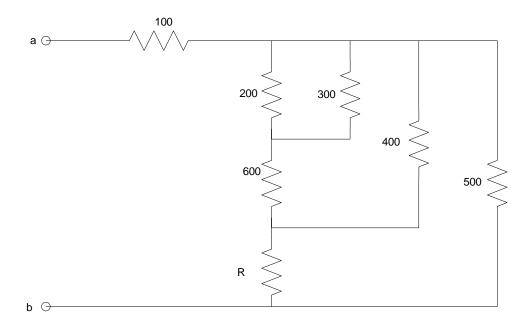
EE 206: Homework #3

Voltage and Current Division. Voltage Nodes. Due Mon, Feb 3rd

Please make the subject "EE 206 HW#3" if submitting homework electronically to Jacob_Glower@yahoo.com (or on blackboard)

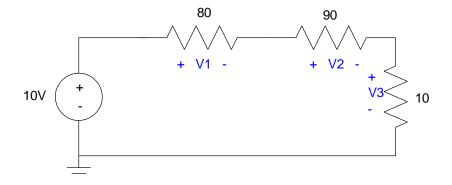
Resistors in Series and Parallel

- 1) Assume R = 100. Determine the total resistance, Rab
- 2) Assume the total resistance is Rab = 400 Ohms. Determine R.

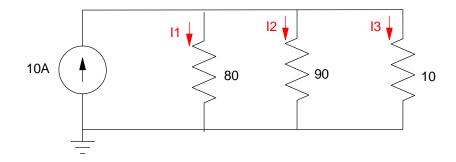


Voltage Division:

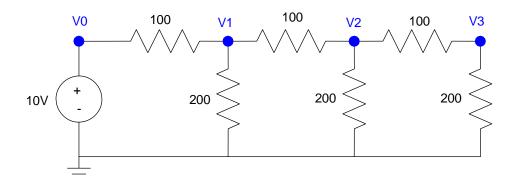
- 3a) Use votlage division to determine the voltages V1, V2, and V3
- 3b) Determine the power dissipated in the 10 Ohm resistor (in Watts)



- 4a) Use current division to determine the current I1, I2, and I3
- 4b) Determine the power dissipated in the 10 Ohm resistor (in Watts)



- 5) Write the votlage node equations for the following circuit. Solve for V1..V3 using Matlab (or similar program)
- 6) Check your answers in PartSim (or similar program)



- 7) Write the votlage node equations for the following circuit. Solve for V1 .. V3 using Matlab (or similar program)
- 8) Check your answers in PartSim (or similar program)

