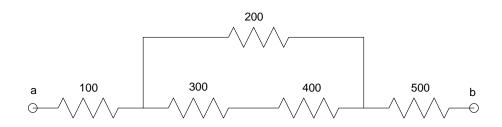
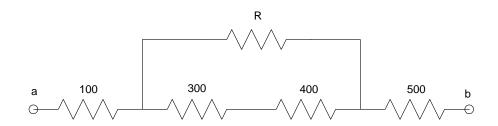
February 8, 2019

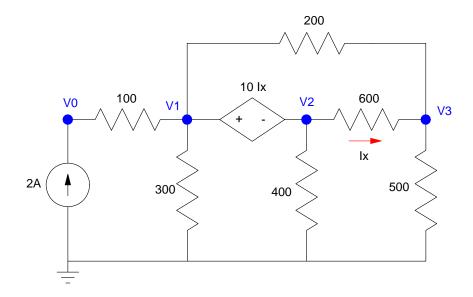
1a) Determine the resitance Rab



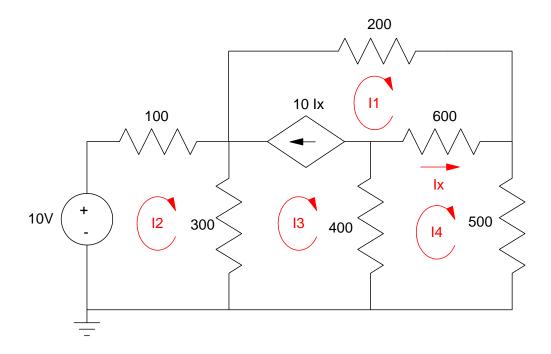
1b) Determine R so that Rab = 700 Ohms



2) Write N equations to allow you to solve for the N unknown votlages

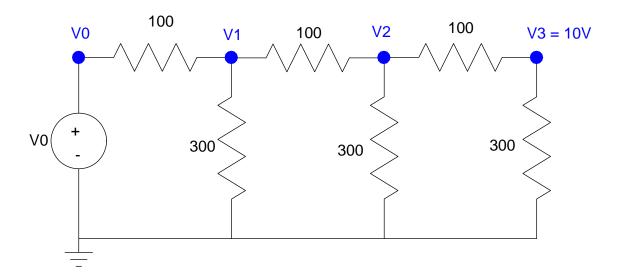


3) Write N equations to allow you to solve for the N unknown currents



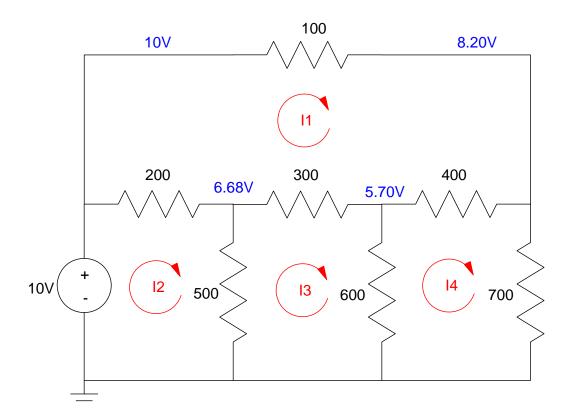
4) For the following circuit, the voltage at V3 is measured as 10V. Determine the voltages V0, V1, V2 (hint: use voltage division)

V0	V1	V2	V3
			10.0V



5) Given the voltages, determine the loop currents

I1	I2	I3	I4



Bonus: There are 300 million people in the United States. How many people does it take for their total wealth to equal the total wealth of the poorest 150 million?