EE 206: Homework #4

Super Nodes, Current Loops. Due Mon, Feb 4th Note: In this assignment just write N equations for N unknowns.

Super Nodes

- 1) Write the voltage node equations for the following circuit (N equations for N unknowns)
- 2) Write the voltage node equations for the following circuit (N equations for N unknowns)



Problem 1

Problem 2

Current Loops

- 3) Write the current loop equations for the following circuit
- 4) Write the current loop equations for the following circuit



For the circuit of problem #4

- 5) Solve your sets of equations to find the currents.
- 6) Simulate the circuit in PartSim. Check that the simulation results match your calculations.

	Calculated problem 5	Simulated problem 6
11		
12		
13		
14		

Super Loops

7) Write the current loop equations for the following circuit



8) Write the current loop equations for the following circuit

