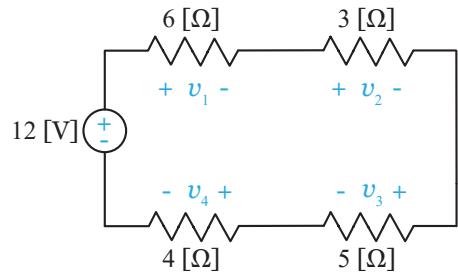


MEMS 0031 - Electrical Circuits
Quiz #3
May 29th, 2019
90 points

Name: _____

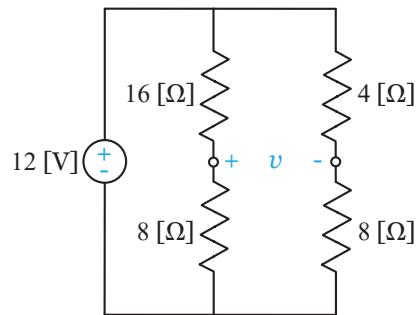
Problem #1

(15 pts.) Use voltage division for series resistors to determine the voltages v_1 through v_4 for the circuit shown below.



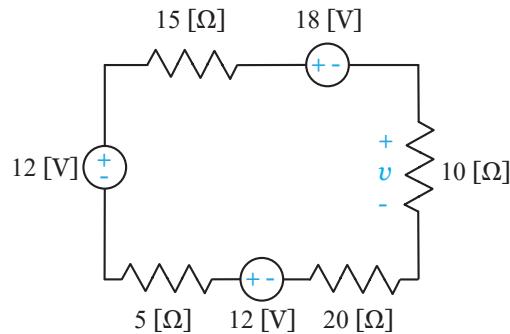
Problem #2

(15 pts.) Determine the voltage drop v across the circuit shown below.



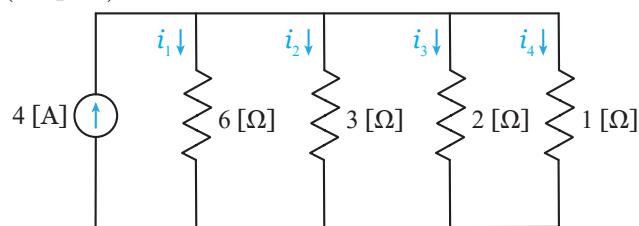
Problem #3

(15 pts.) Determine the voltage drop v across the $10 \text{ } \Omega$ resistor in the circuit shown below.



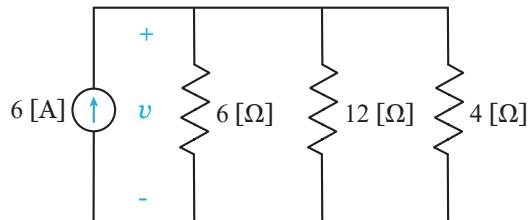
Problem #4

(15 pts.) Determine the branch currents i_1 through i_4 in the circuit shown below.



Problem #5

(15 pts.) Determine the voltage drop v across resistor network in the circuit shown below.



Problem #6

(15 pts.) Determine the current i in the circuit shown below.

