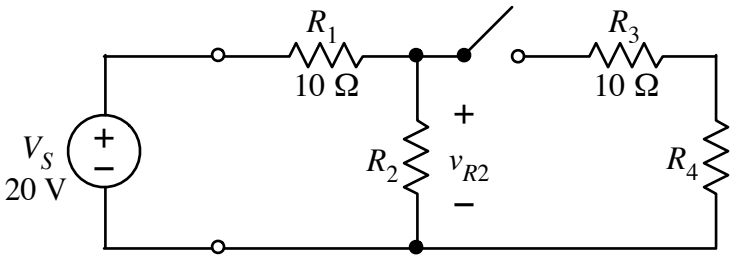
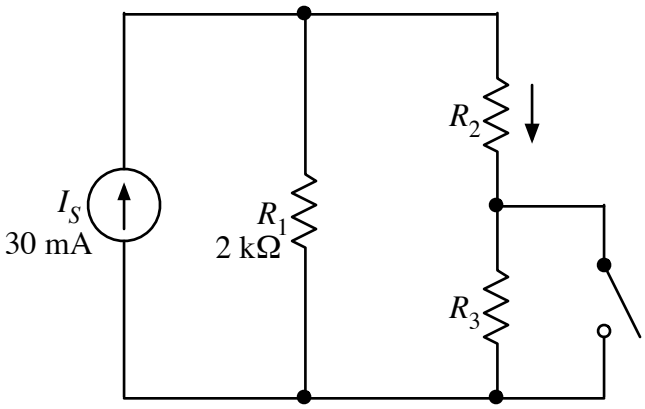
EE 201 — HW 2-3 Name_____

a. For the circuit shown at right, when the switch is open (R_3 and R_4 disconnected), $v_{R2} = 15$ V. When the switch is closed (R_3 and R_4 are connected), $v_{R2} = 12$ V. Determine the values for R_2 and R_4. Note: Using voltage divider techniques is probably an effective way to work this problem.



R_2 = _____; R_4 = _____

b. For the circuit shown at right, when the switch is closed (R_3 shorted), $i_{R2} = 20$ mA. When the switch is open (R_3 not shorted), $i_{R2} = 10$ mA. Determine the values for R_2 and R_3. Note: Using current divider techniques is probably an effective way to work this problem.



R_2 = _____

R_3 = _____

Write your answers — and whatever work will fit — on this sheet. Staple any sheets with additional work behind.