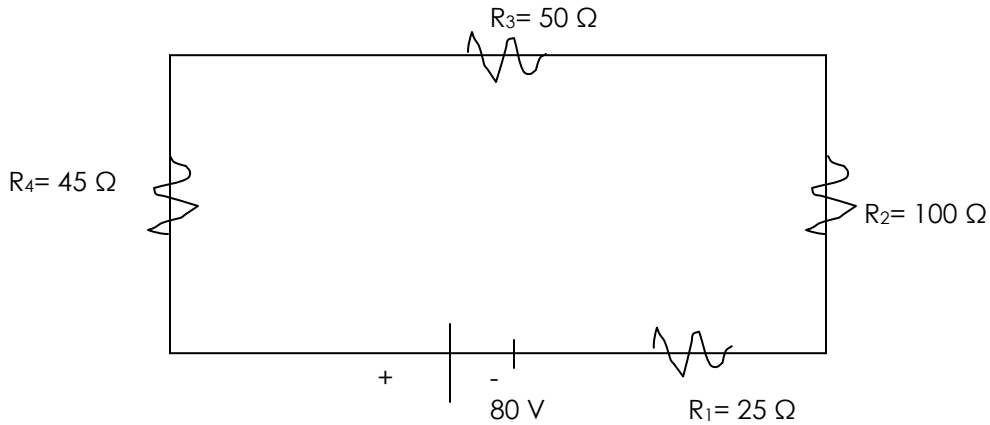


Simple Circuit Practice

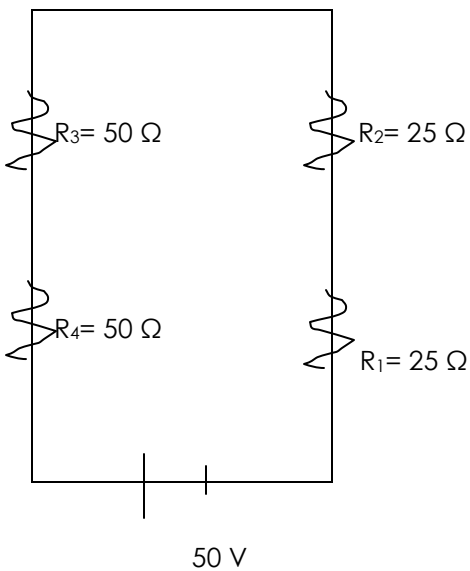
Circuit #1



1. Which direction does the current flow? (clockwise or counterclockwise? _____)
2. What type of circuit is this? (series or parallel) **EXPLAIN** how you knew which it was!
3. What is the Req? _____
4. What is the total current through the circuit?
5. Why is the current the same for all of the resistors?
6. What is the **voltage drop** (ΔV) for each resistor?

$R_1 =$ _____ $R_2 =$ _____ $R_3 =$ _____ $R_4 =$ _____

Circuit #2

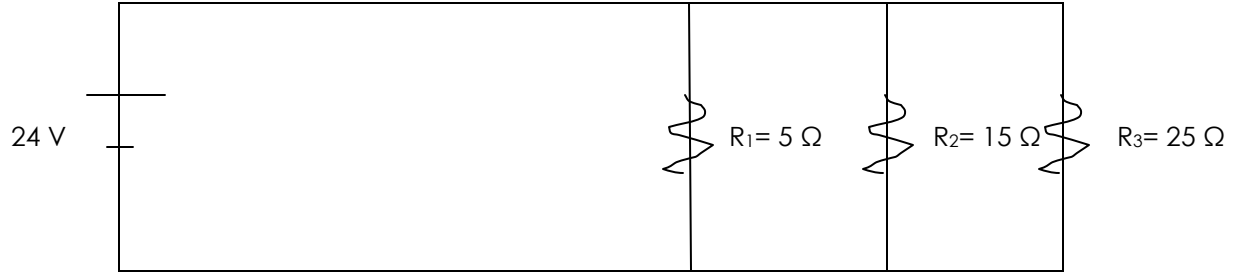


1. What type of circuit is this? (series or parallel) **EXPLAIN** how you knew which it was!
2. What is the Req? _____
3. What is the total current through the circuit?
4. What is the **voltage drop** (ΔV) for each resistor?

$R_1 =$ _____ $R_2 =$ _____

$R_3 =$ _____ $R_4 =$ _____

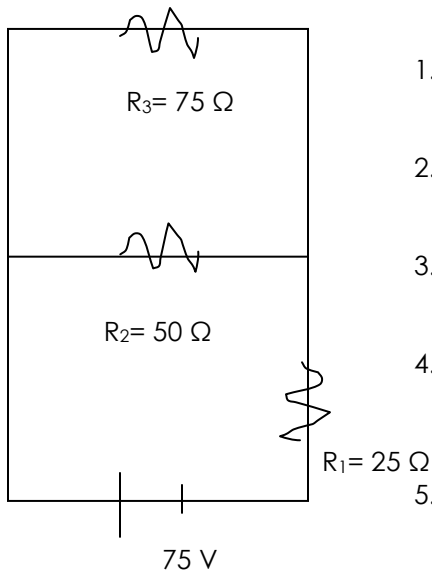
Circuit #3



1. Which direction does the current flow? (clockwise or counterclockwise?) _____
2. What type of circuit is this? (series or parallel) **EXPLAIN** how you knew which it was!
3. What is the R_{eq} ? _____
4. What is the total current through the circuit?
5. Why is the current NOT the same for all of the resistors?
6. What is the **voltage drop** (ΔV) and **current** for each resistor?

$\Delta V_1 =$ _____	$\Delta V_2 =$ _____	$\Delta V_3 =$ _____
$I_1 =$ _____	$I_2 =$ _____	$I_3 =$ _____

Circuit #4



1. What is the R_{eq} ? _____
(Do the parallel ones first and then add the series one normally)
2. What is the total current through the circuit?
3. Find the **voltage drop for R_1** . (All the current goes through it)
4. Determine the **voltage drop for R_2** . ($R_1 + R_2 = 75\ V$)
5. Determine the current that goes through R_2 .
6. Find the voltage drop and current that travels through R_3 .