

## Guidelines to Solving Networks (Series and Parallel Circuits)

1. Redraw the circuit to make it easier for you to understand if necessary.
2. Find the equivalent resistance for all parallel branches until you have the equivalent of a series circuit.
3. Find the total resistance and the total current in the circuit.
4. Find the voltage drop across each resistor and parallel branch of resistors.
5. Use the calculated voltage drop to solve for each parallel branch.

Ex.

For the following circuit, find:

- a.) total resistance
- b.) total current
- c.) voltage drop across each resistor

