1. In a parallel circuit, the branch with the highest resistance always has the _____ amount of current.

2. As more branches are added to a parallel circuit the total current _____.

3. _____ law states that the total current in the main line in a parallel circuit equals the sum of the individual branch currents.

4. The type of circuit that is used to determine the value of an unknown resistance is called a _____ bridge.

5. _____ law states that the total voltage drop in a closed loop series circuit must equal the source voltage.

6. Calculate the total equivalent resistance in a series circuit with the following: Vs = 20V, R1 = 3kohms, R2 = 2kohms, R3 = 1kohms

7. Calculate the total current in a series circuit with the following: Vs = 20V, R1 = 3kohms, R2 = 2kohms, R3 = 1kohms

8. Calculate the total equivalent resistance in a parallel circuit with Vs = 20V, R1 = 3kohms, R2 = 2kohms, R3 = 1kohms. All three resistors are in parallel.

9. Calculate the total current in a parallel circuit with Vs = 20V, R1 = 3kohms, R2 = 2kohms, R3 = 1kohms. All three resistors are in parallel.

10. Calculate the total power dissipated in a parallel circuit with Vs = 20V, R1 = 3kohms, R2 = 2kohms, R3 = 1kohms. All three resistors are in parallel. Express the final answer in terms of Watts.

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