Quiz: Simple Circuits 1/30/12

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using your knowledge of combining resistors in series reduce the following circuit to an equivalent circuit having a single battery and a single resistor.
2. If the battery is 12 V how much current will flow through the equivalent circuit?
3. How much current flows through each of the resistors in the original circuit?
4. Now calculate the equivalent resistance for this circuit containing parallel resistors.