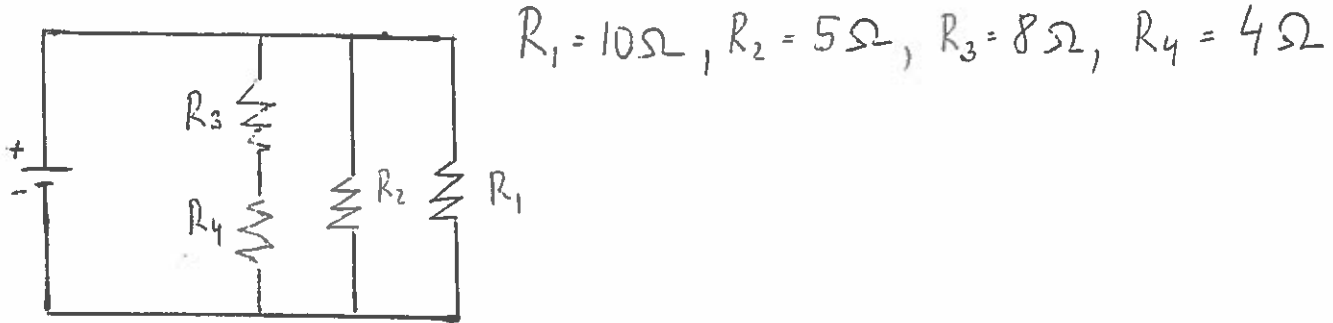


FINDING INFORMATION ABOUT MORE COMPLEX CIRCUITS

Parallel:

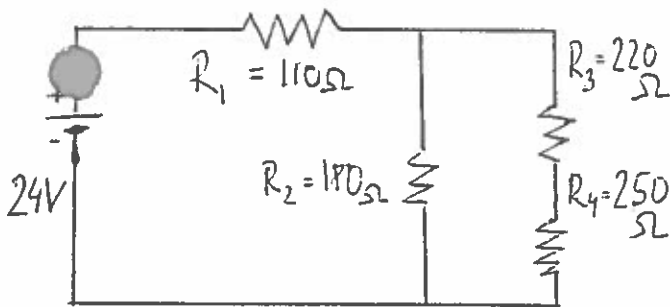
Series:

1. Find the equivalent resistance of the electric circuit below:



➤ Before using the formula for equivalent resistance for resistors in parallel R_3 and R_2 must be added using the formula for resistors in series.

2. Find the current in the electric circuit below:



- Step 1: locate all resistors in parallel _____, _____, and _____
- Step 2: add R_3 and R_4 using the formula for resistors in series
- Step 3: Find the resistance from R_2 and $(R_3 + R_4)$ using the formula for resistors in parallel
- Step 4: Find the equivalent resistance using the result from step 3 and adding R_1 using the formula for resistors in series
- Step 5: Use Ohm's law to find the electric current

3. Find as much information as you can about the electric circuit below:

- Find the equivalent resistance
- Find the electric current at the battery
- Find the electric current for each resistor
- Find the potential in every closed loop using the Second Kirchhoff's Rule
($\sum V_{\text{battery}} = \sum V_{\text{resistors in a loop}}$)
- Use Ohm's Law to find missing information when 2 out of 3 quantities are known

