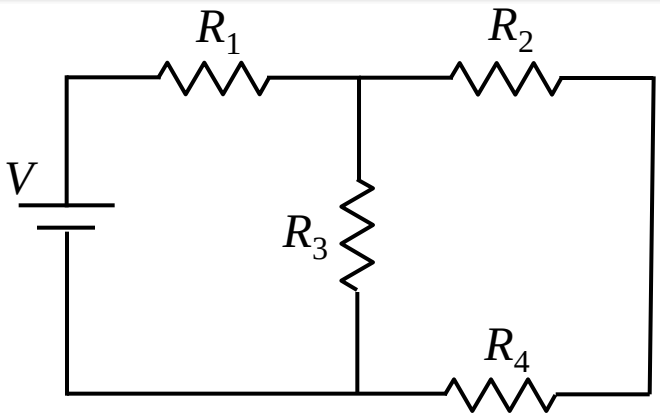
Calculation



In the circuit shown: $V = 18V$,

$R_1 = 1\Omega$, $R_2 = 2\Omega$, $R_3 = 3\Omega$, and $R_4 = 4\Omega$.

What is V_2, the voltage across R_2?

We first will combine resistances R_2, R_3, R_4:

Which of the following is true?

A) R_2, R_3 and R_4 are connected in series

B) R_2, R_3, and R_4 are connected in parallel

C) R_3 and R_4 are connected in series (R_{34}) which is connected in parallel with R_2

D) R_2 and R_4 are connected in series (R_{24}) which is connected in parallel with R_3

E) R_2 and R_4 are connected in parallel (R_{24}) which is connected in parallel with R_3