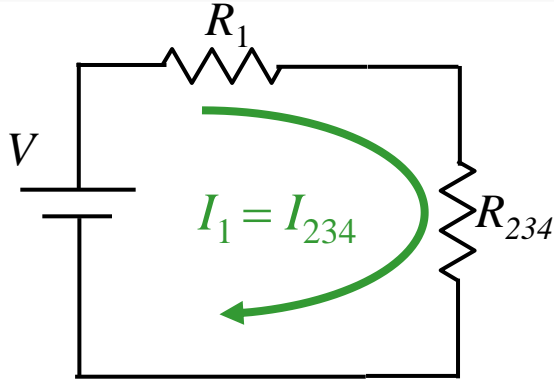


Calculation



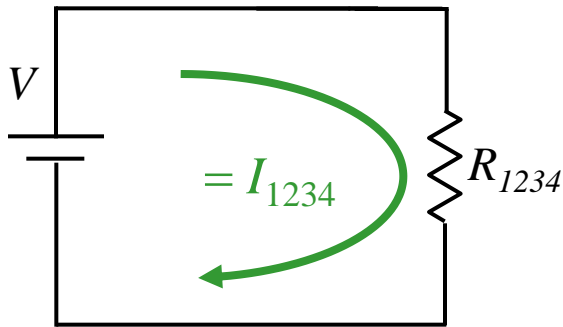
In the circuit shown: $V = 18V$,
 $R_1 = 1\Omega$, $R_2 = 2\Omega$, $R_3 = 3\Omega$, and $R_4 = 4\Omega$.

$$R_{24} = 6\Omega \quad R_{234} = 2\Omega$$

What is V_2 , the voltage across R_2 ?

R_1 and R_{234} are in series. $R_{1234} = 1 + 2 = 3\Omega$

Our next task is to calculate the total current in the circuit



Ohm's Law tells us: $I_{1234} = V/R_{1234}$
 $= 18 / 3$
 $= 6 \text{ Amps}$