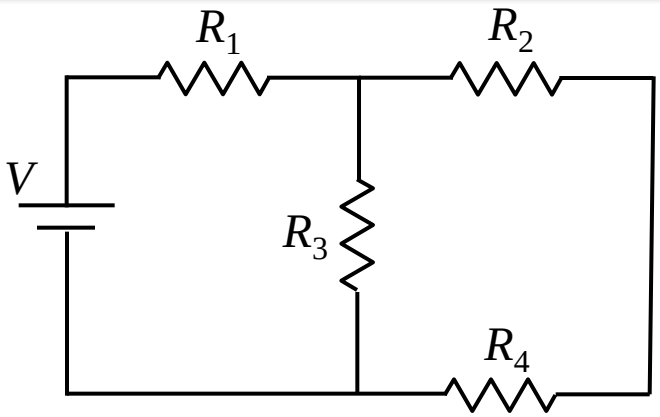
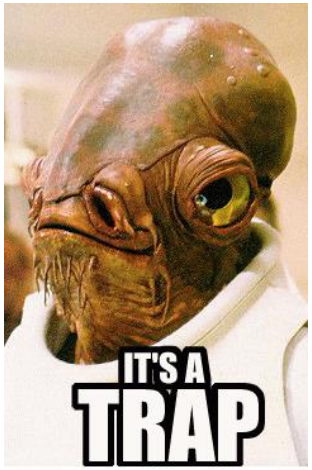
Calculation



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?

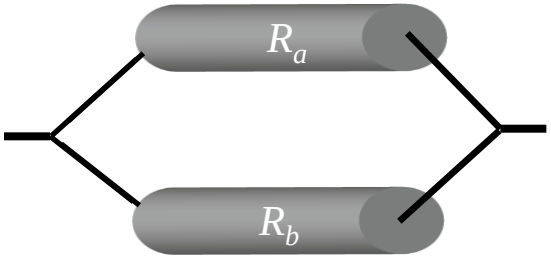


Combine Resistances:

R_1 and R_2 are connected:

A) in series B) in parallel C) neither in series nor in parallel

Parallel Combination



Parallel: Can make a loop that contains only those two resistors

Series Combination

Series : Every loop with resistor 1 also has resistor 2.