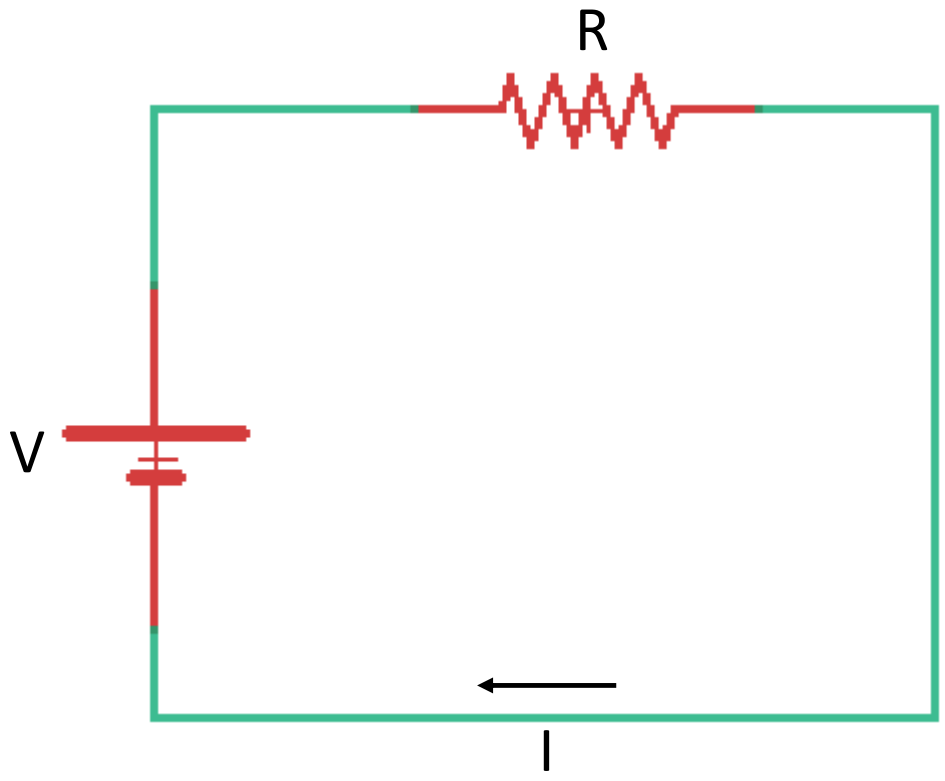
More Series and Parallel Circuits

Wheeler HS Fall 2018

Basic Circuit

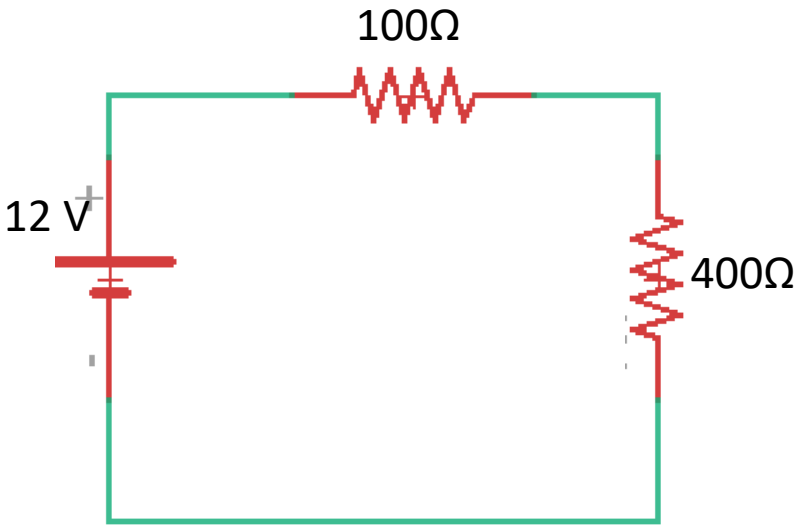
$V = IR$

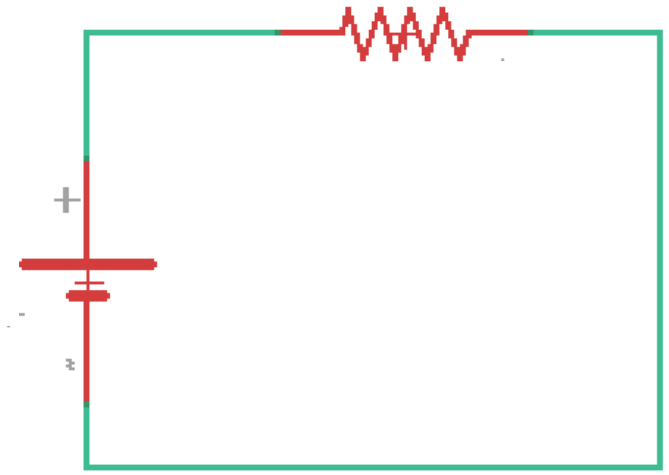


Simplifying Series

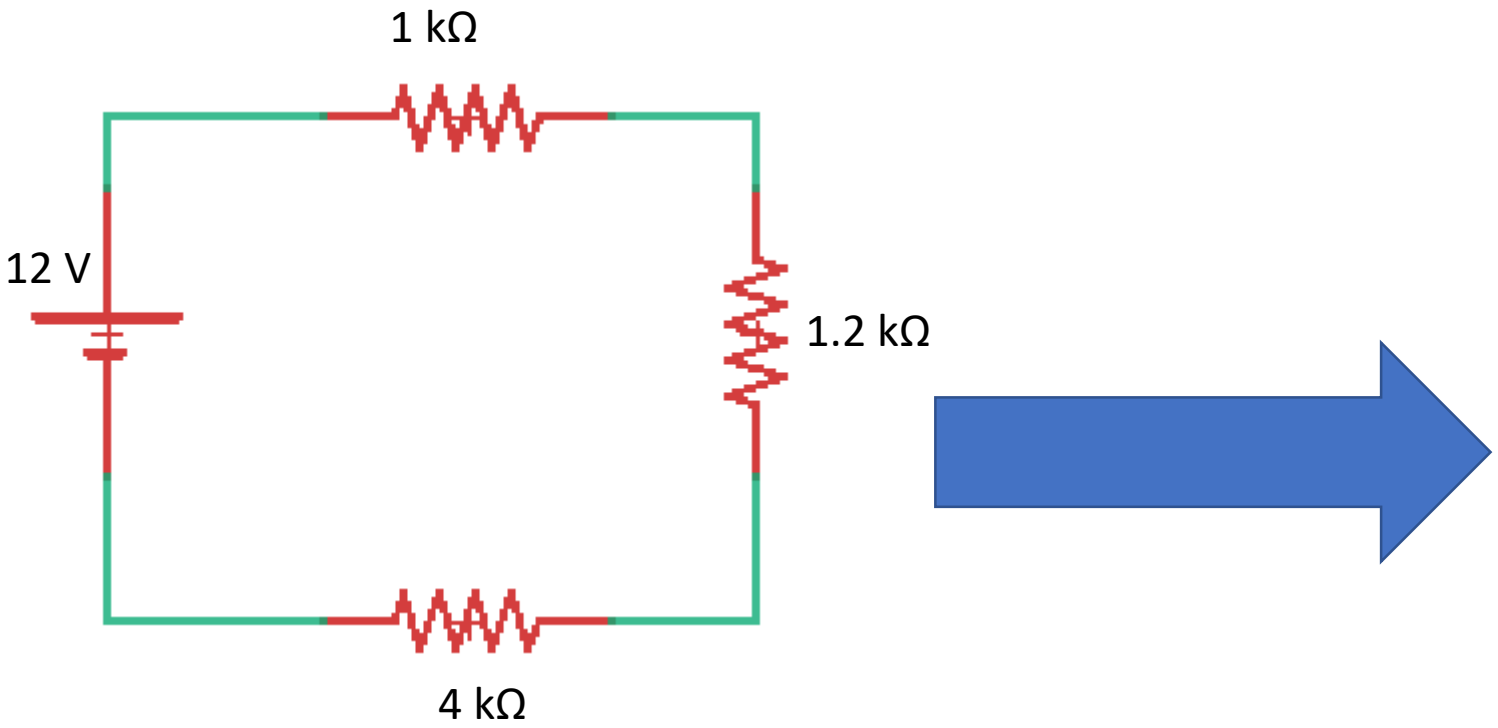
Equivalent resistance for series circuits adds together

$$R_{total} = R_1 + R_2 + \cdots$$





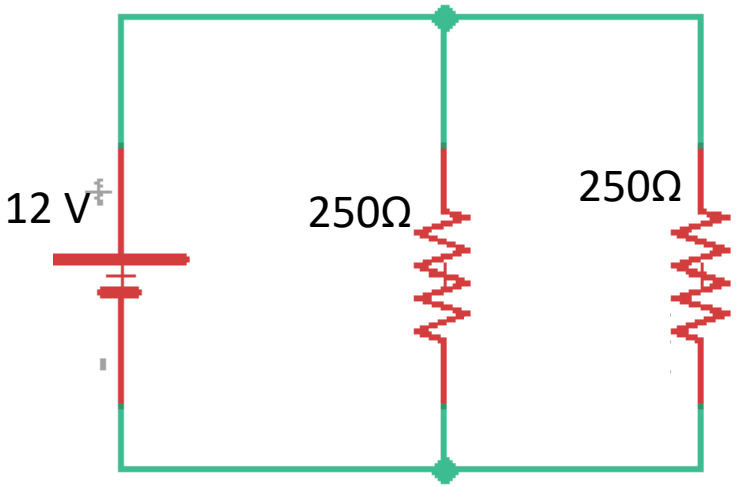
Another Series Example

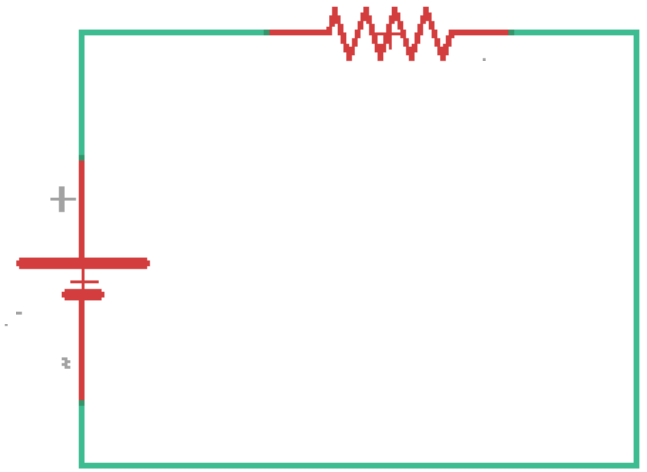


Simplifying Parallel

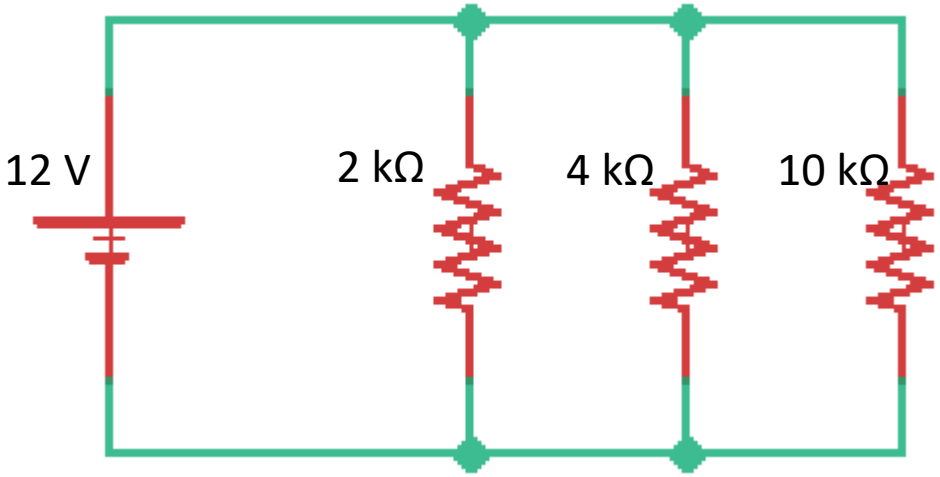
Equivalent resistance for parallel circuits:

$$\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} + \cdots$$

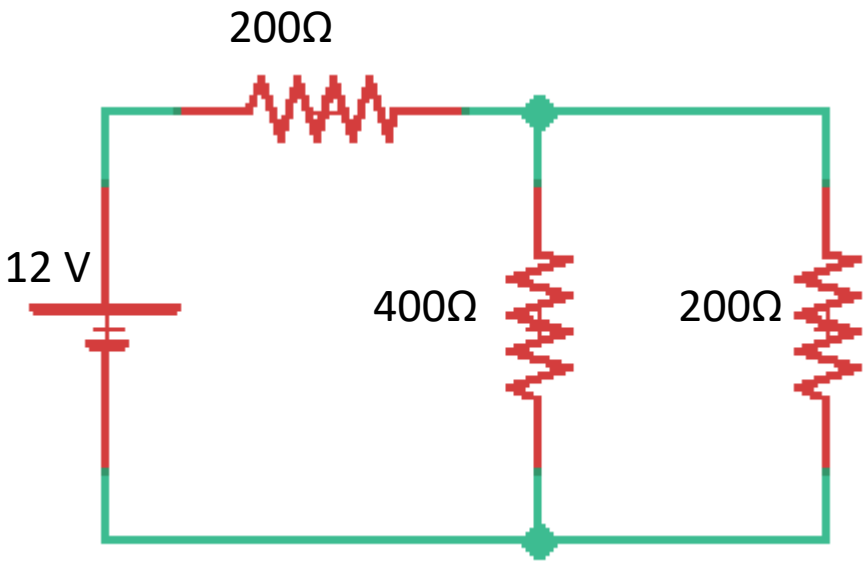




Another Parallel



Putting it together



More!