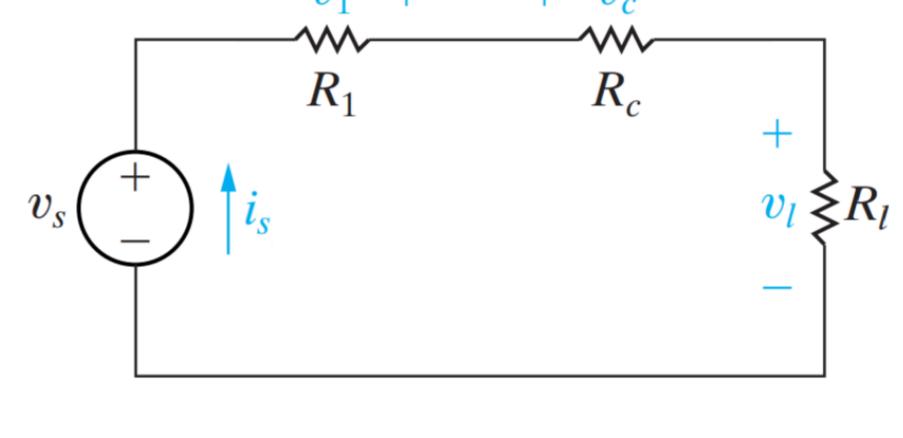


Kirchhoff's Current Law (KCL)

Kirchhoff's Voltage Law (KVL)



The algebraic sum of all the currents at any node in a circuit equals zero.

The algebraic sum of all the voltages around any closed path in a circuit equals zero.

$$i_1 - i_2 - i_3 = 0$$
 or  $i_1 = i_2 + i_3$ 

 $-v_1 + v_c + v_l - v_s = 0$