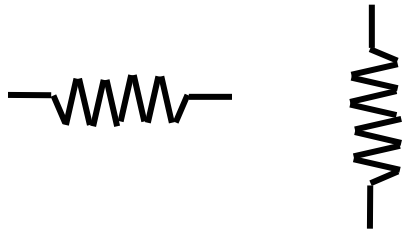
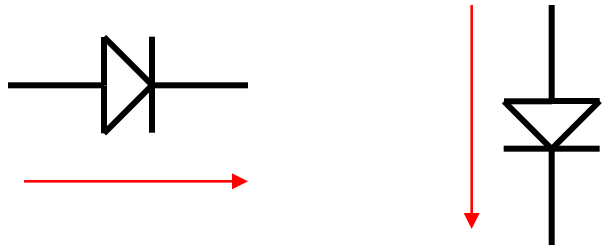
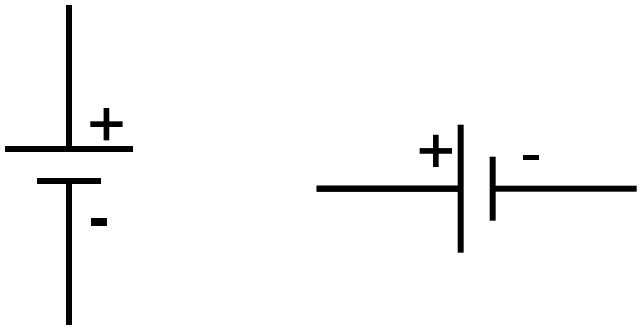
Símbolo de una resistencia:



Símbolo de un rectificador:



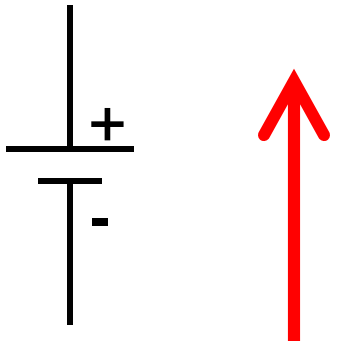
Símbolo de una f.e.m.



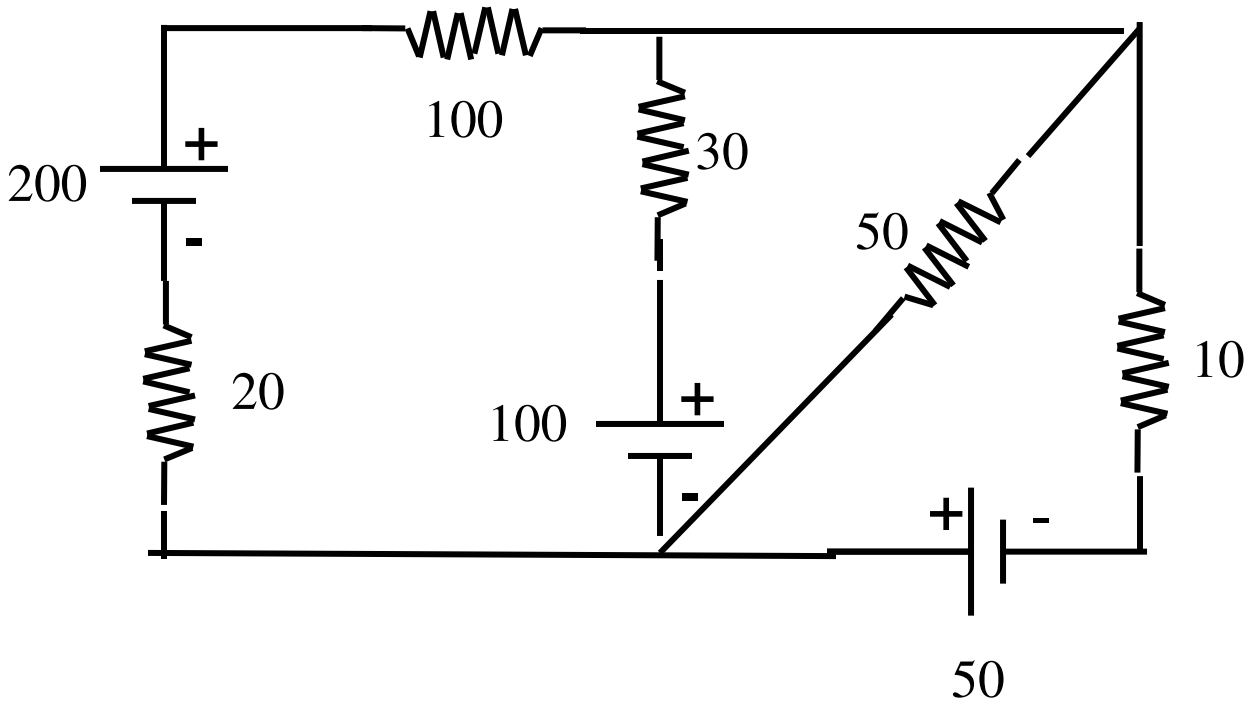
Leyes de Kirchoff

I . La suma algebraica de las corrientes que fluyen a un nodo, es cero.

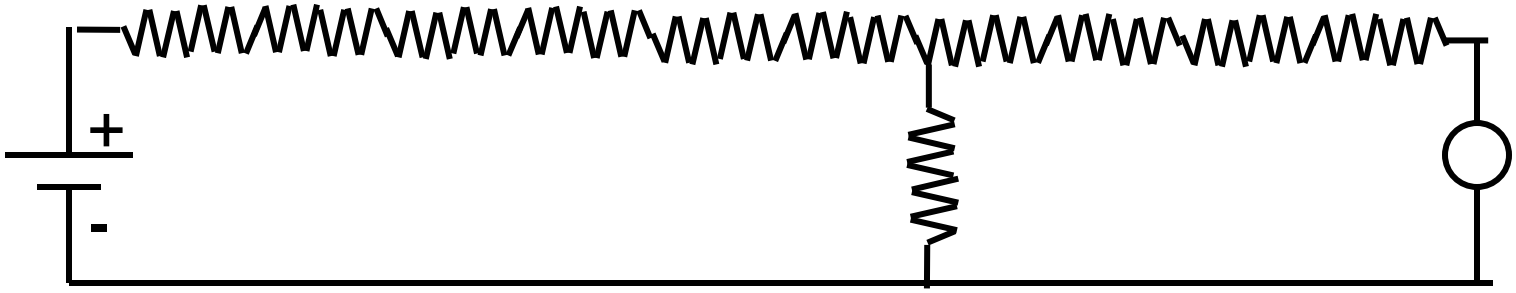
II . En un circuito cerrado, la suma de las fuerzas electromotrices es igual a la suma de los productos I×R en el mismo circuito.

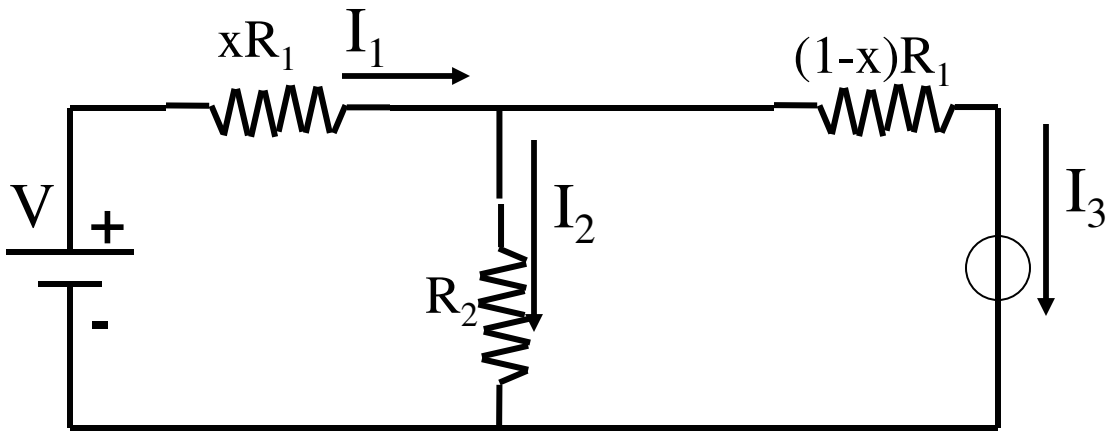


f.e.m. es positiva cuando la flecha va de **-** **a** **+**


100
30
50
10
200
+
-
20
100
+
-
+
-
50

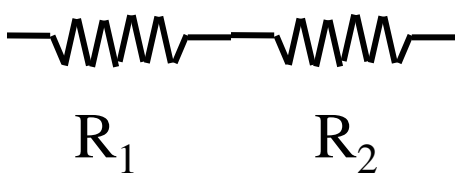
Línea telegráfica con falla a tierra.





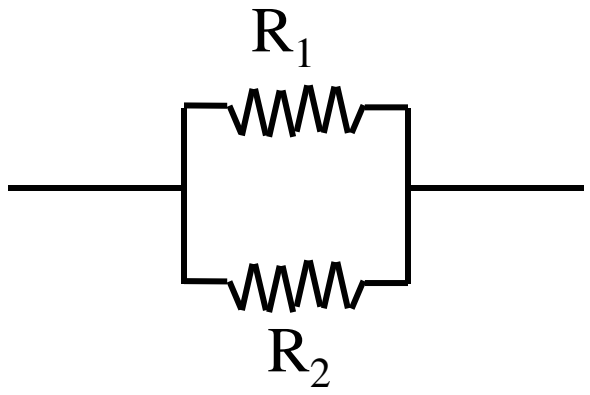
Combinaciones de resistencias: Serie y paralelo.

Serie: $R_{eq} = R_1 + R_2$



Paralelo: $\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2}$

$$R_{eq} = \frac{R_1 R_2}{R_1 + R_2}$$



Puente de Wheatstone