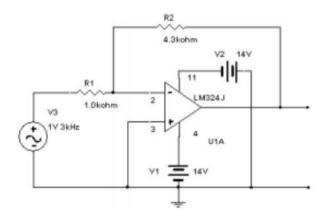
Cálculos

Calcular el voltaje de salida en un lazo cerrado operacional en cada uno de los siguientes circuitos.

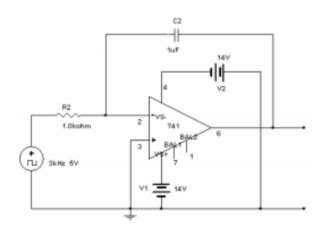
Circuito 1



$$V_{out} = -(\frac{R_f}{R_i})V_{in}$$

 $V_{in} = 1$
 $R_i = 1000\Omega$
 $R_f = 4300\Omega$
 $V_{out} = -(\frac{4300}{1000})1$
 $V_{out} = -4.3 [V]$

Circuito 2



$$V_{out} = -\left(\frac{R_f}{R_i}\right)V_{in}$$

$$V_{in} = 1$$

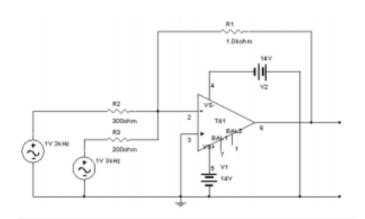
$$Z_i = 1000\Omega$$

$$Z_f = -j53,05\Omega$$

$$V_{out} = -\frac{j53,05}{1000} * 5$$

$$Vout = -0,26[V]$$

Circuito 3



$$V_{out} = -(\frac{R_f}{R_i})V_{in}$$

$$V_{in1} = 1$$

$$V_{in2} = 1$$

$$R_{i1} = 300\Omega$$

$$R_{i2} = 200\Omega$$

$$V_{out} = -R_f(\frac{V_{in1}}{R_{i1}} + \frac{V_{in2}}{R_{i2}})$$

$$V_{out} = -R_f(\frac{V_{in1}}{R_{i1}} + \frac{V_{in2}}{R_{i2}})$$

$$V_{out} = -8,333 [V]$$