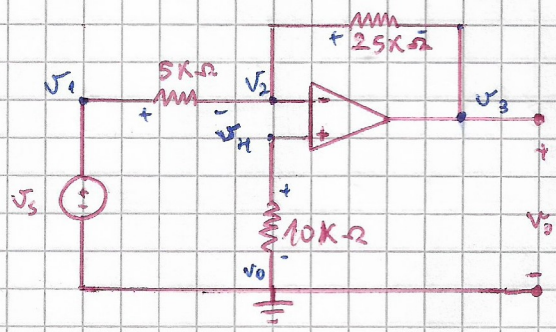
Calcule la ganancia V_o/V_s en el circuito.



$V_1 = V_s$

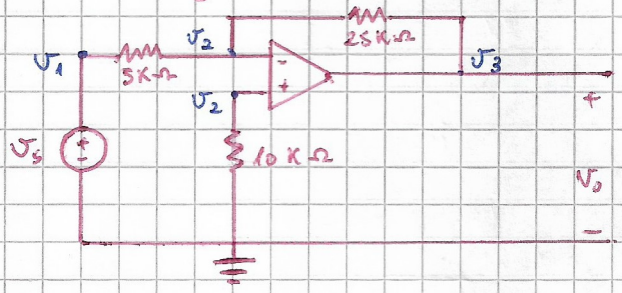
Nodo 2

$$\frac{V_1 - V_2}{5} - \frac{V_2 - V_3}{25} - \frac{V_2}{10} = 0$$

$$\frac{10V_1 - 10V_2 - 2V_2 - 2V_3 - 5V_2}{50} = 0$$

$$10V_1 - 17V_2 - 2V_3 = 0$$

Calcule la ganancia V_o/V_s en el circuito.



5KΩ y 25KΩ estan en serie

$$\frac{V_1 - V_2}{5} - \frac{V_2 - V_3}{25} = 0$$

$V_2 \approx 0$

$$\frac{V_1}{5} = -\frac{V_3}{25}$$

$$V_1 = -\frac{5V_3}{25} = \frac{V_3}{5}$$

$V_1 = V_s \qquad V_3 = V_o$

$$\frac{V_o}{5} = -V_s$$

$$\frac{V_o}{V_s} = -5$$