

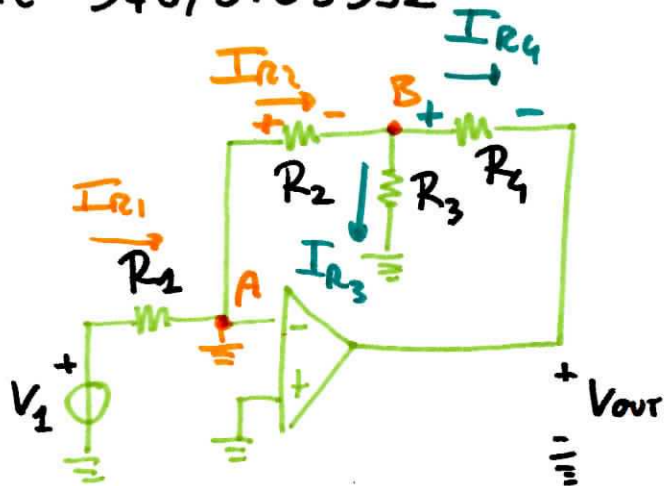
$R_1 = 1k\Omega$ $R_2 = 1k\Omega$ $R_3 = 200\Omega$ $R_4 = 1k\Omega$

$V_{inpp} = 100mV$ $V_{outpp} = ?$

$V^{(+)} = V^{(-)} = 0 = V_A$

$I_{R1} = \frac{V_1}{R_1}$

$I_{R1} = I_{R2}$



NODO B

$I_{R2} = I_{R3} + I_{R4}$

$\frac{V_1}{R_1} = \frac{V_B}{R_3} + \frac{V_B - V_{out}}{R_4}$

$V_B = -V_{R2} = -R_2 \frac{V_1}{R_1}$

$\frac{V_1}{R_1} - V_B \left(\frac{1}{R_3 // R_4} \right) = -\frac{V_{out}}{R_4}$

$V_{out} = -\frac{R_4}{R_1} V_1 + R_4 \left(\frac{V_B}{R_3 // R_4} \right) \frac{1}{R_4}$

$V_{out} = -V_1 \left[\frac{R_4}{R_1} + \frac{R_2}{R_1} \frac{R_4}{R_3 // R_4} \right]$