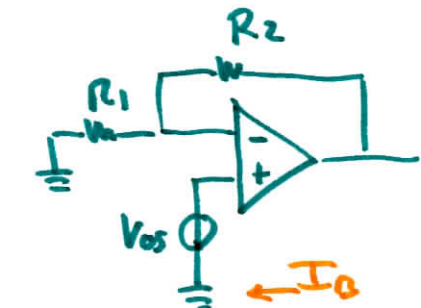
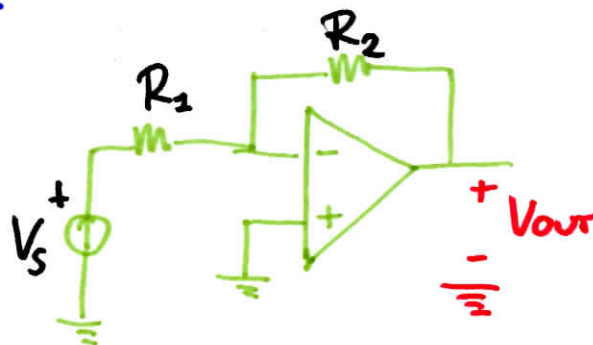


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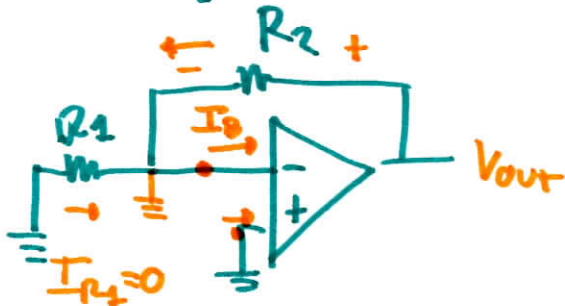
$R_1 = 1k\Omega$ $R_2 = 100k\Omega$ $V_{os} = 10\mu V$ $I_B = 100nA$

$V_S = 0$ $V_{out_{errone}} = ?$

$V_{out} = V_{out_{os}} + V_{out_{I_B}}$



$V_{out_{os}} = V_{os} \left(1 + \frac{R_2}{R_1} \right)$



$I_B = \frac{V_{out_{I_B}}}{R_2}$

$V_{out_{I_B}} = I_B \cdot R_2$

$V_{out_{err}} = V_{os} \left(1 + \frac{R_2}{R_1} \right) + I_B \cdot R_2$