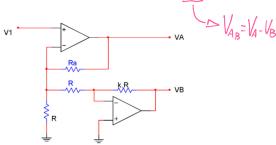
Eiercicio #2

Amplificador con **salida diferencial**. Obtener la expresión de VAB. Utilizar el valor

Ra=R(k-1)/2



Nedos

$$V_2 \left(\overline{G} + K.G \right) - V_B. \left(\frac{G}{K} \right) - V.G = 0$$

$$V = V_1$$

$$V_2 = 0V$$

$$\begin{cases} V_{1}.\left(G_{a}+ZG\right)=V_{A}.G_{a} \Rightarrow V_{4}=V_{1}.\left(G_{a}+ZG\right)\\ V_{1}.G=-V_{B}.\left(\frac{G}{K}\right)\Rightarrow V_{B}=-V_{4}.G.K \end{cases}$$

$$\begin{cases} V_{1}.G=-V_{B}.\left(\frac{G}{K}\right)\Rightarrow V_{B}=-V_{4}.G.K \end{cases}$$

$$V_{AB} = V_A - V_B = V_1 \cdot \left(1 + \frac{ZG}{Go}\right) + V_{1.}k = V_{1.}\left(1 + \frac{ZG}{Go} + k\right)$$

$$G_0 = \frac{2G}{(\kappa-1)}$$

$$-DV_{AB} = V_1. \left(1 + \frac{2G.(k-1)}{2G} + k\right) = V_1. \left(1 + k - 1 + k\right)$$