par superposition:

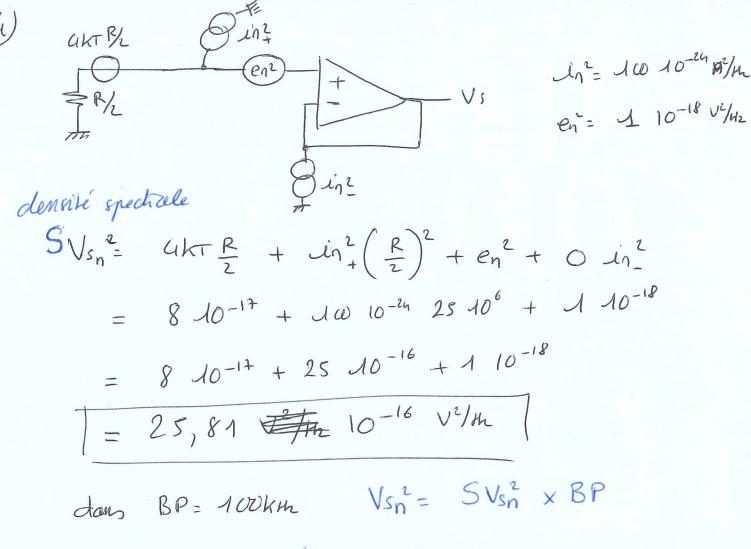
$$J_{1=0} \implies V_{A_1} = \frac{E_1 R_{eq}}{R_{eq+R_3}} = \frac{2}{3} V_{-} = 666, 7mV$$
 $E_{1=0} \implies V_{A_2} = -J_1 \left(\frac{R_{eq} || R_3}{A_{eq+R_3}} \right) = -\frac{166}{3}, 7mV$
 $J_{66,7n}$

$$\frac{\text{Par Milman}}{\text{VUh} = \frac{-\text{I1} + \frac{\text{E4}}{\text{R3}}}{\frac{1}{\text{Req}} + \frac{1}{\text{R3}}}} \approx 500\text{mV}$$

$$\frac{1}{\text{Req}} + \frac{1}{\text{R3}}$$

$$\text{RUh} = \text{ReqIIR}_3 = 166, \text{Hz}$$

$$V_{S=} - V_{1} - V_{2} + (V_{3} + V_{4}) \left(\frac{R/L}{R + R/L}\right) \left(\frac{1 + \frac{R}{R/L}}{R/L}\right) = -(V_{1} + V_{2}) + (V_{3} + V_{4})$$



$$V_{sn} = 25,81 10^{-11} V^2$$

TVsn = 31 nV rms /

Exercice 2:

