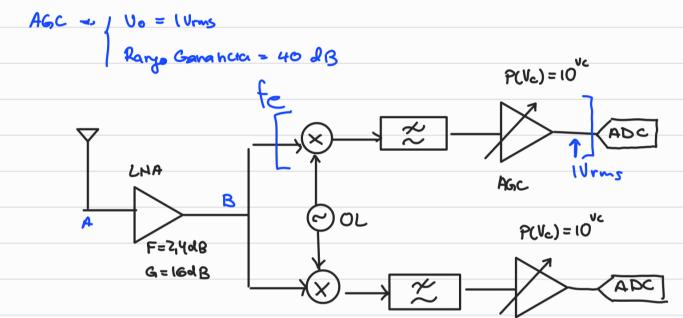
BLOQUE 2:



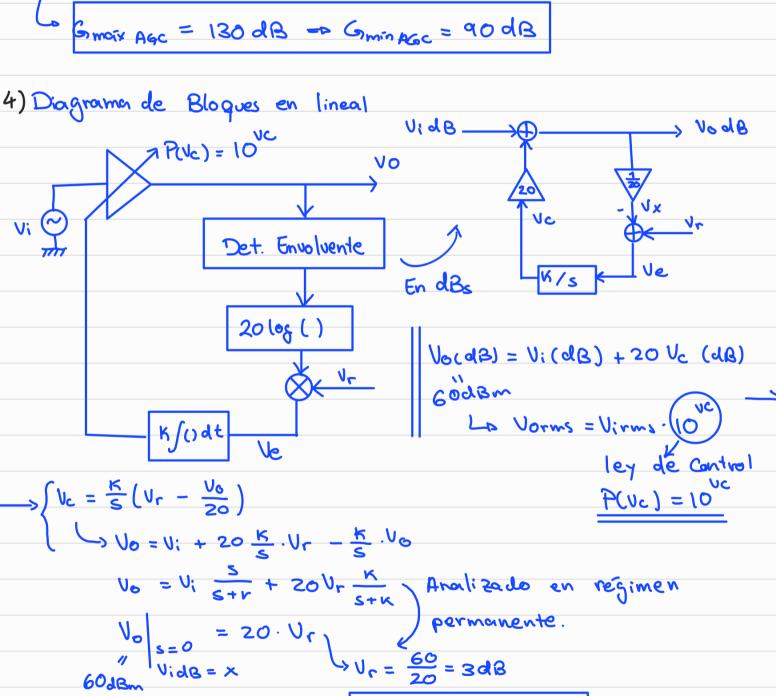
AGC

$$V_i = -70 \, dB_{m}$$

SNR entrada = $10 \, log \, \left(\frac{(0.316 \, MV)^2}{4 \, kT \cdot 50 \cdot 20 \, M} \right) = \frac{-22.12 \, dB}{}$

2)
$$f_{\xi} = f_{1} + \frac{f_{e} - 1}{g_{1}} = 10 \implies f_{e} = 10^{1/6} \left(10 - 10^{0/24} \right) + 1 = 329,92$$

$$f_{e} \leq 25, 18 \text{ dB points maintener } f_{\tau} = 10 \text{ dB}$$
3)



$$V_0 = V_1 \frac{s}{s+r} + 20V_r \frac{\kappa}{s+\kappa}$$
Analizado en rejectos
$$V_0 = 20 \cdot V_1$$

$$V_1 = \frac{60}{20} = 3dB$$

$$V_2 = 10^{\frac{3}{20}} = 1,41V_{rms}$$

Segun la simulación, para una Vi de -30d8m

La El ruido - Vans = 38,628 kV

- D'Analizando la figura de ruido:



$$P_{NB} = (38,628 \text{ AU})^2 \text{ W}$$
 $P_{SB} = -3000 \text{ Bm} + 1600 \text{ Hz} + 1000 = -1300 \text{ Bm}$
 $P_{SB} = (223,87 \text{ AU})^2 \text{ W}$
 $P_{SB} = (223,87 \text{ AU})^2 \text{ W}$
 $P_{SB} = (223,87 \text{ AU})^2 \text{ W}$
 $P_{SB} = (223,87 \text{ AU})^2 \text{ W}$

-3 Se cumple la condicion