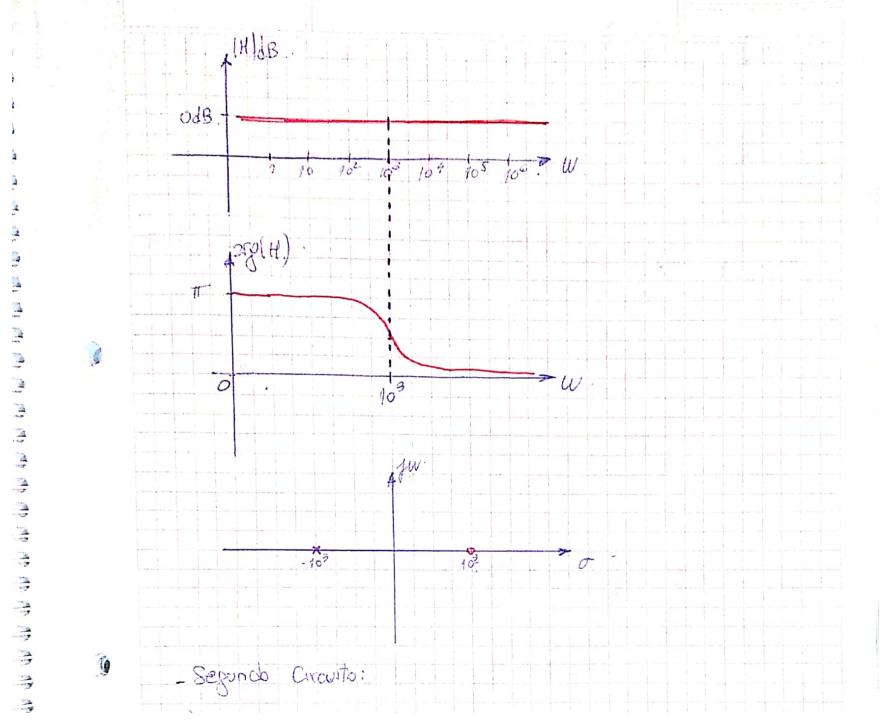
Exercicio (3) (A) · Vx = V1 P3 10-NX = NX-N2 R1 R2 P3120 NIGI - Nx (GI+GZ) = N2GZ. $N_1G_1 - N_1 (G_1 + G_2) = N_2 G_2$ $= G_3 (S_1G_2 + 1)$ 6. H(S) = -G1 + G1+G2 = -G1 + (G1+G2) SC G2 G3G2 (SCl3+1) = G2 G3G2 SCR3+G2G3 $H(5) = -G_{1} + (G_{1}+G_{2}) S Q / 4G_{2} = -G_{1} (S + \frac{G_{3}}{G_{2}}) + S (\frac{G_{1}+G_{2}}{G_{2}})$ $G_{2} + \frac{G_{3}}{G_{2}} = -G_{1} (S + \frac{G_{3}}{G_{3}}) + S (\frac{G_{1}+G_{2}}{G_{2}})$ $G_{3} + \frac{1}{G_{3}} = -\frac{G_{1}}{G_{2}} (S + \frac{G_{3}}{G_{3}}) + \frac{1}{G_{3}} (S + \frac{G_{3}}{G_{2}}) + \frac{1}{G_{3}} (S + \frac{G_{3}}{G_{3}}) + \frac{1}{G_{3}} (S + \frac{G_{3}}{G_{2}})$ H(S) = - R2 S: - R2 . 1 + S (GI+G2) R2 . 1 + 1 = RI+P2 RI R2 RIP2 S7-7-H(S) = S(R1/R2-92)- P2 P4 /21) R1 P3C. (1) S+ 7/23C. HB) = S - P2 1 8 + 1/30 S + 1000Hz

5



| (Nx = | ? Zz , Nc/ (Z1 = 2+ | 1/5C 72 P | /sc R +3c Sc2+1 |
|----------------|---|----------------------------|--|
| Nx-Nz = | V1-VX Per | | |
| VX T NX G | B - VI RB = V2 | | |
| Vi 22 71+72 | (1+ RB) - V; RB - Vo. | | |
| HIS) = 31 | 72 + RB 72 - RB = 72 - RA = 74 - 74 - 74 - 74 - 74 - 74 - 74 - 74 | 22+ RB36- | P3/24 (>1+25) |
| H(s) > | 61 Tt2. | $(47) - (R + \frac{7}{8})$ | $\left(\frac{\mathcal{L}_{B}}{\mathcal{R}_{A}}\right)$ |
| H(s) - 1 | 2- (SPC+1) (RSC+1) SC R+R(SPC+1)+(1 | | |
| | R - (SCR+1) 2 PB/PA R, SCR(SCR+1) + SCR; | - 7 | |
| | $-[(sc_R)^2 + 2sc_{R+1}]e_{1}$ $-[(sc_R)^2 + 3sc_{R+1}] + 1$ | 3/24 | |

$$||S|| = \frac{1}{|S|} \frac{1}{|$$

$$H(s) = -\frac{\rho_{8}}{\rho_{A}} \quad S^{2} + 5 \quad \frac{2 - \frac{\rho_{8}}{\rho_{8}}}{c_{R}} + \frac{1}{2^{2}\rho^{2}}$$

$$S^{2} + 5 \quad \frac{3}{6}\rho + \frac{1}{2^{2}\rho^{2}}$$

$$H(s) = -5$$
 $S^2 + S(-3000)H_2 + 1MH_2^2$

