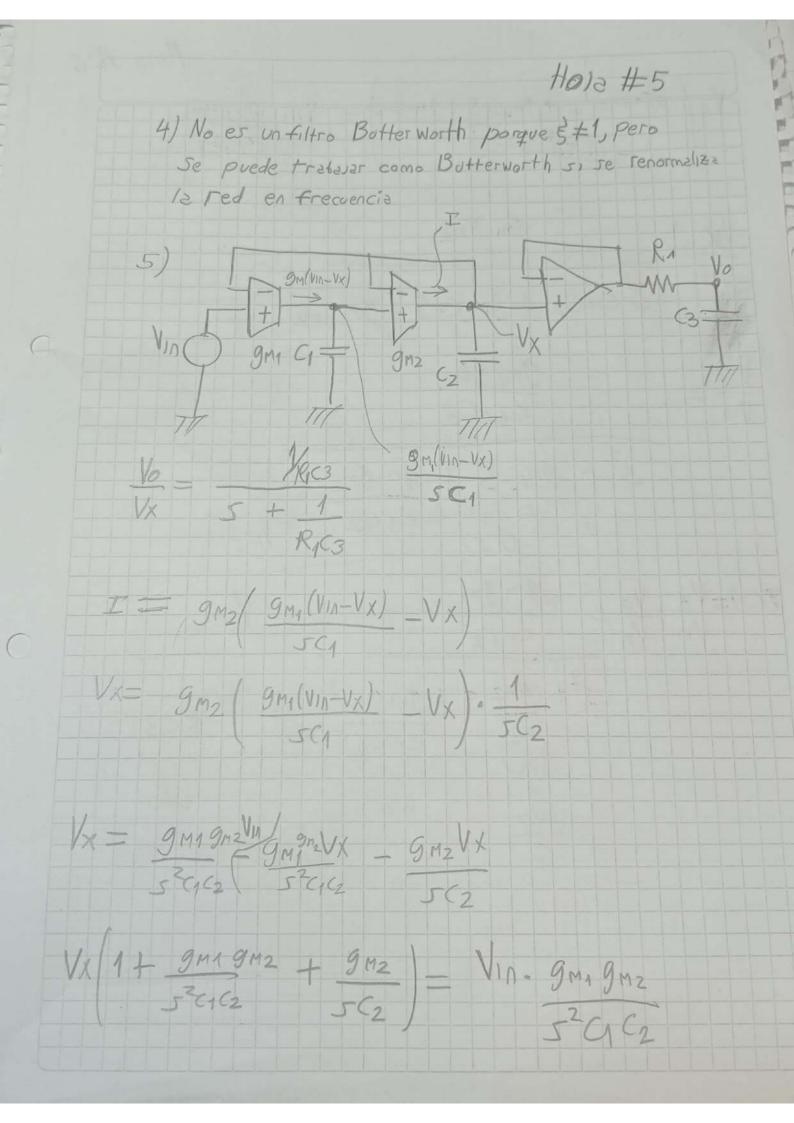
T53 Hose #1 Max = 1 XMIn= 12 fp = 1500 f5= 3000 Xm10 12 You DIX 1 $\xi = 10$ -1 = 7 $\xi = 0,5088$ W5=2 Nw=Wp=2Nfp W's = 27 . #5 Q(5)=(5+2)(52+65+c) Q(+5)=(-5+a)(5-65+c)

Hosa #7 $T(s) = \frac{1}{Q(s)} = \frac{1}{(s+z)(s^2+bs+c)}$ $|T(s)|^2 = \frac{1}{Q(s)} \frac{1}{Q^*(s)} = \frac{1}{1 - \xi^2 5^6} = \frac{1}{5^6 - \frac{1}{\xi^2}}$ $T(-5) = \frac{1}{(-5+2)(3^2-b5+c)} = \frac{-2\cdot c}{(5-2)(3^2-b5+c)}$ $-3^{2}C = -\frac{1}{\xi^{2}} \rightarrow 3^{2}C = \frac{1}{\xi^{2}}$ $\frac{\partial \cdot c}{\partial y} = \frac{1}{2} \Rightarrow \frac{\partial z}{\partial y} = \frac{$ 3=1 - a= 378 - 2.0 T(S) T(-S) = (5-3)(5+3)(5-65+c)(5+65+c) $(5^2-3^2)(3^2-bs+c)(5^2+bs+c)$

Hara # 3 -3°c3 (54-633+c52-252+265-2°c)(52+65+c) T(5) T(-5)= T(5)T(-5) = (54-653+(c-23)3+2365-36)(5+65+c) T(5)T(-5)= (56-65+(c-2)54+2653-2°c52+655-634+(c-3)65 + 22652-22cbs+554+ b.e.5+(c-3)c5+26cs 0-54=(0-3)\$4-634+654 = 2c-2-b= = b= 12c-13 b= W2 3 w. b= 1 3/8 7=1,2526 · Verixicación B=1,2526 C= 1,569 b= Wo => b= Wo



Ho)a #6 VX (5 C162 + 9M2C15 + 9M19M2 - VID 9M19M2 52C1C2 53462 9 Mg 9 MZ VX 5°C1C2 + 9m2C15 + 9m19m2 Vx 9M1 9M2 C1.C2 52 + 9mz 5 + 9m19mz 6(5) 6162 H(5) 7(5)=Vx . Vo = 9 Mg 9 MZ VRC3 C1 C2 52+ 9MZ 5 + 9M1 9MZ C1 C2 600 Wo2 Wo

Hora #7 G(5) = 9m19m2 1,569 1,25265 + 1,569 52 + 9 m2 5 + 9 m19 m2 1,569 52 + 1 5 + 9m1 C'2 52 + 1,25265 + 1,569 C2= 9m2. Q - 9m2. Q Wo wo-ap 9mi = Wo -> Ci = 9mi (Wo - C') C1= 9M1.9M2 9m1-9m2 Wo2-Wp2-C2

HO12 #8 Nw= Ws H(s) = JLZ=R, 1,2526 4(5)= C3 = 1 Wo. R, 6 R= Wo C3 Despues hay que des nornalizar por Wp Wolep. R.

Has #9 Bonus #3 C3=100F - R1= 1 = 847152 C1= C2= 100nF CZ= 9M2. Q -> 9M2= WOWP. C2 9m2= I2 1 2.25,6mV I= 60,44 uA C1= 9m1-9n2 Wa-Wp2 . C7 C1. 9/2. Wo - 9M1. Wolf C/2 1 (Localculanos antes) gmy= c1. Wo Wp = gm2 -> I1= I2= 60,44uA