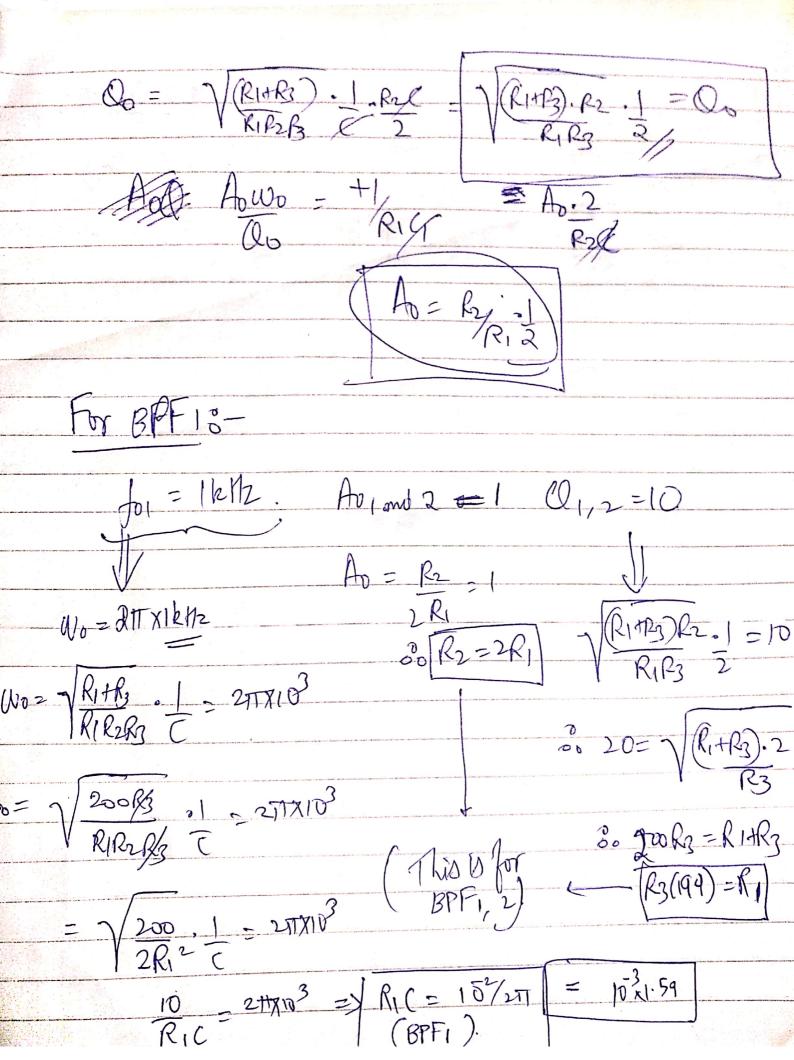
Name-Balasubramanian MC Pre-lab Exp. -6-Bandfass filtersvout. Vous Atrode ()  $\frac{V_{in}-V_{l}}{D_{i}}=\frac{V_{l}}{R_{3}}+\left(V_{l}-V_{out}\right)\Delta(+\left(V_{l}-V_{cm}\right)\Delta($ Vin + Vout D(+Vcm X = V(///, +//2) 2)-Fai Vem-Vout = (V1-Vcm)S( => Vcm - Vout +Vcm = V1- Frz
RZD( RZDC RZDC From Epn. 2 and Egn. 2, ( Vin + Vout S( + Vcm S() = Ncm/ 1/2 +1) - Vout /x R1 + Vout S( + Vcm S() = Ncm/ 1/2 +1) - Vout /x ( 1/6 + 1/2 +2 oc)

Vin + Vem O(-Vem(1 +1)(1+1/250) =- Vout { / R; + 1/ + 20(3) Kn is just a de offset.) Vin = -Vout ( +1 +1 RZRIDE RZRIDE PRI +D() Vout = -1 Vio RILL + L + 2 + D(3) Rr RIST R3R2D(Fr) R/ R3 + R1 + 2R1R30(+R1P2R3(0())) RI RIBOL - R2R3 SC (SC) (RIR2R3) + 2RIR3 S(+R1+R3) - A RICI



Scanned with CamScanner

For 13PF23-Wo = 271 x 3 x 103 red/s.  $\frac{88}{86} \frac{R_{1}.C}{(BfF_{2})} = \frac{15^{2}}{3x^{2}} = \frac{5.31 \times 15^{4}}{5.31 \times 15^{4}}$ Mence, values taken

for BPF 1 & R\_1=100K = R\_15

R\_2=200K = R\_25

R\_3=0.503k=R\_3; BPF#= Ca = 15.91 BPF2:- Cb = 5.3nF/

