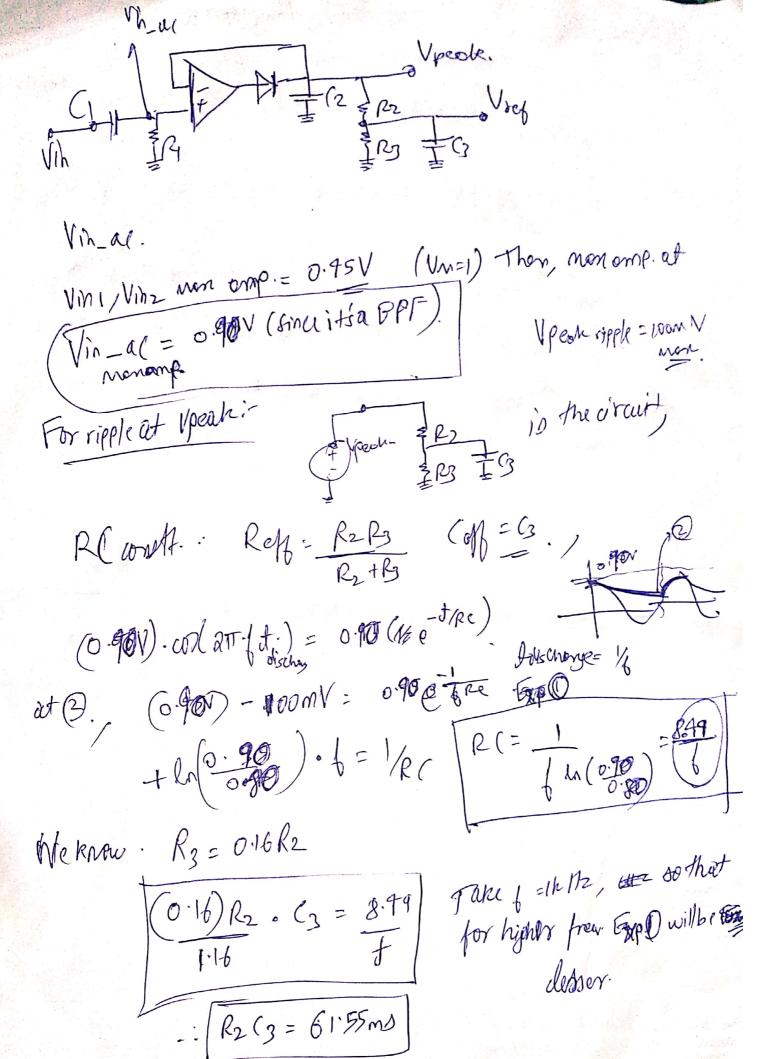
re-lab - Exp-7 ?. Name-Balasubramaniam MC Roll: EE18B155 (1) R- of Adder can be only value - inthis case, taken Ik=R We know that Vinuc - has 2x omplitude of Vin Vin 1 omp = 0.45V or 6.45 Vm) .. Vinac omp. = 0.90 V The peak detector detects peak of o biased, o. & Vorne. Sirvsoid i/p 00 0.9V = Veeak Vrej = 250mV = (Vpeah). Rg :. R3 (18) = 0.25V -- \$5 R3 = 0.25 R2 6.2 R3=R2 \$2 88 5 5 8 or R3 = 0-10 P2 V peak ripple = 100mV.



Let's take $R_2 = 1k^2$, ($3 = 61.55 \mu F$, the ripple was found to be less than 100mV songl., and Vripple for-Vrey was 10mN. This works for both., 3kHz and 1kHz ~ 10mN. R=1k R3=160-2 ($3 = 61.55 \mu F$ ($2 = 5 \mu$).

Finally, for the given BPF, we hard Vrey to hit 250mV. R3 had to be changed to hit 250mV. R3 had to be changed to 1-27k to get 250mV. Other 1-27k to get 250mV. Other

