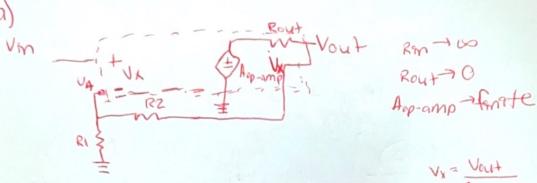
1) Finite Gam



Vx = Vout

- Non-Repart + VonR2 + RI(-Vout) + RIVm - RIVout = 0

$$-V_{0u} + \left(\frac{R2+R1+R1}{A_{0}p_{0}mp}\right) = -V_{1}mR2 - V_{1}nR1$$

$$-V_{0u} + \left(\frac{R2+R1+R1}{A_{0}p_{0}mp}\right) = -V_{1}mR2 - V_{1}nR1$$

$$-V_{0u} + \left(\frac{R2+R1+R1}{A_{0}p_{0}mp}\right) = V_{1}m \left(R2+R1\right)$$

$$-V_{0u} + \left(\frac{R2+R1+R1}{A_{0}p_{0}mp}\right)$$

$$-V_{0u} + \left(\frac{R2+R1}{A_{0}p_{0}mp}\right)$$

$$-V_{0u} + \left(\frac{R2+R1}{A_{0}p_{$$

d) The internal gain of this op-omp juniskely to affect the non-inverting amplifier gain under typical usage, because the non-invertine gain will be much larger than the internal gain of this op-amp that the result from part c won't affect it. e) $V_{\text{out}} = V_{\text{an}} \left[\frac{(R2+1k)(100)}{R2+1k+(1k\cdot100)} \right] \Rightarrow \frac{V_{\text{out}}}{R2+1k+(1k\cdot100)} = \frac{(R2+1k)(100)}{R2+1k+(105)}$ R2=-91.83 = 92 2) A op-amp = Ainternal wb = GBP Stwb Vout = Van (R2+R1) GBP Stub

R2 +R1 + R1 (GBP)

R2 +R1 + R1 (GBP)

S+Wb

R2 +R1 + R1 GBP

S+Wb = BGBP (RZ+RI) = SAMP (CBP (KSHE)) = GBP (RZ+RI) | GBP | SBP2 (RZ+R) Acarcust (3+Wb)(R2+RI) +RIGBP=GBP(R2+RI)

