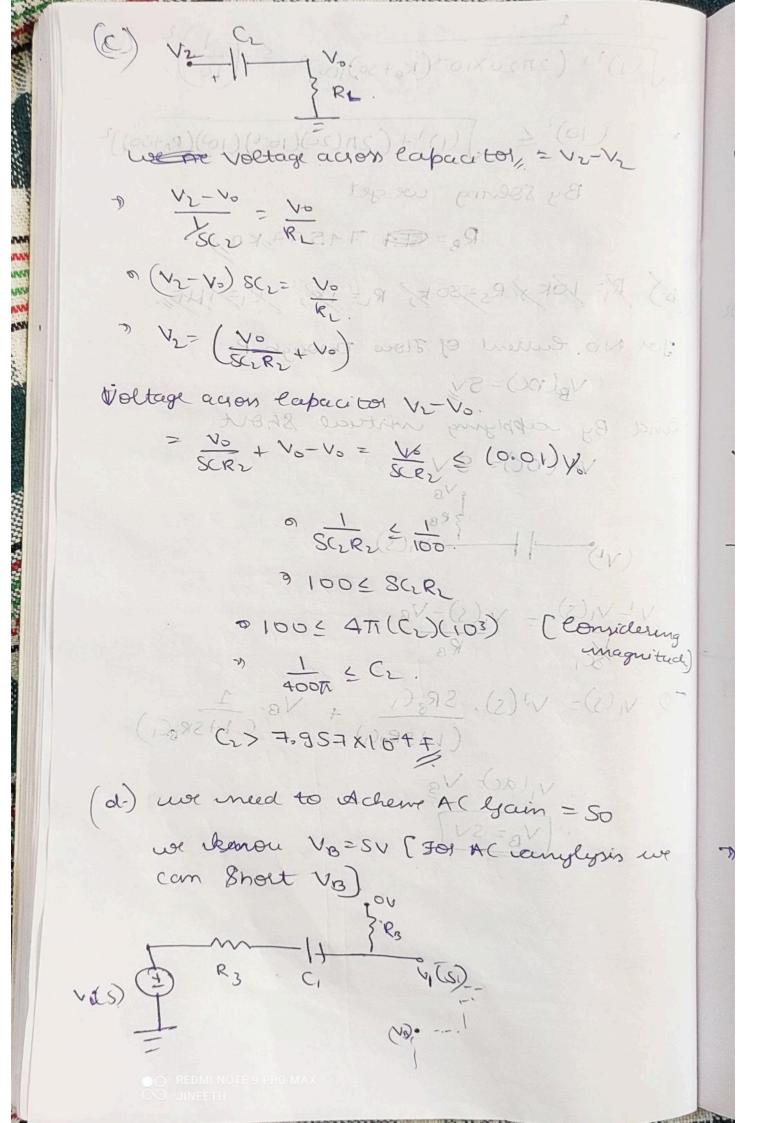
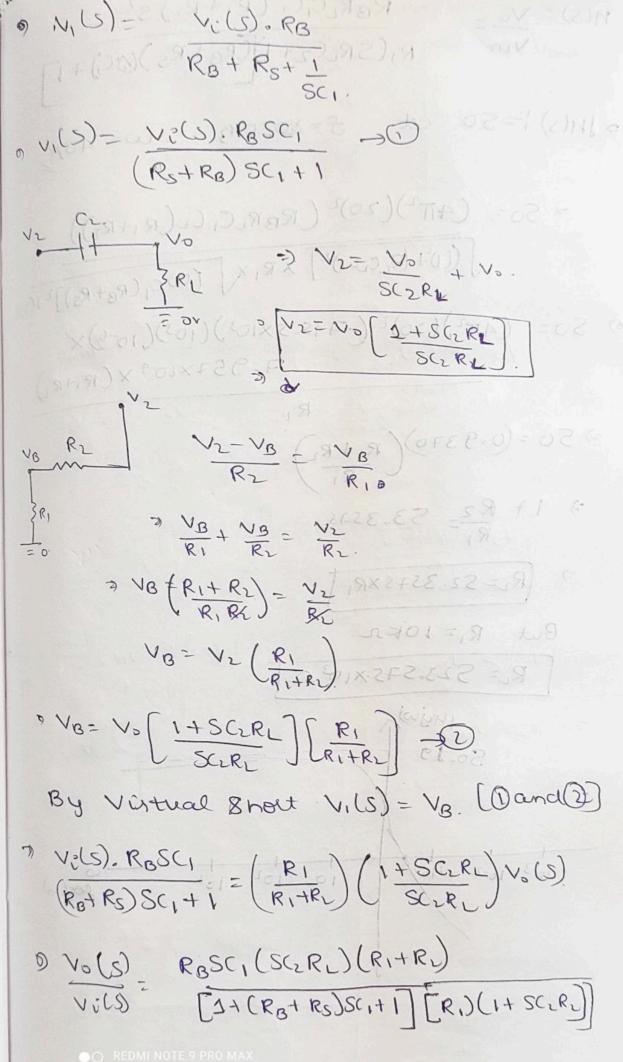
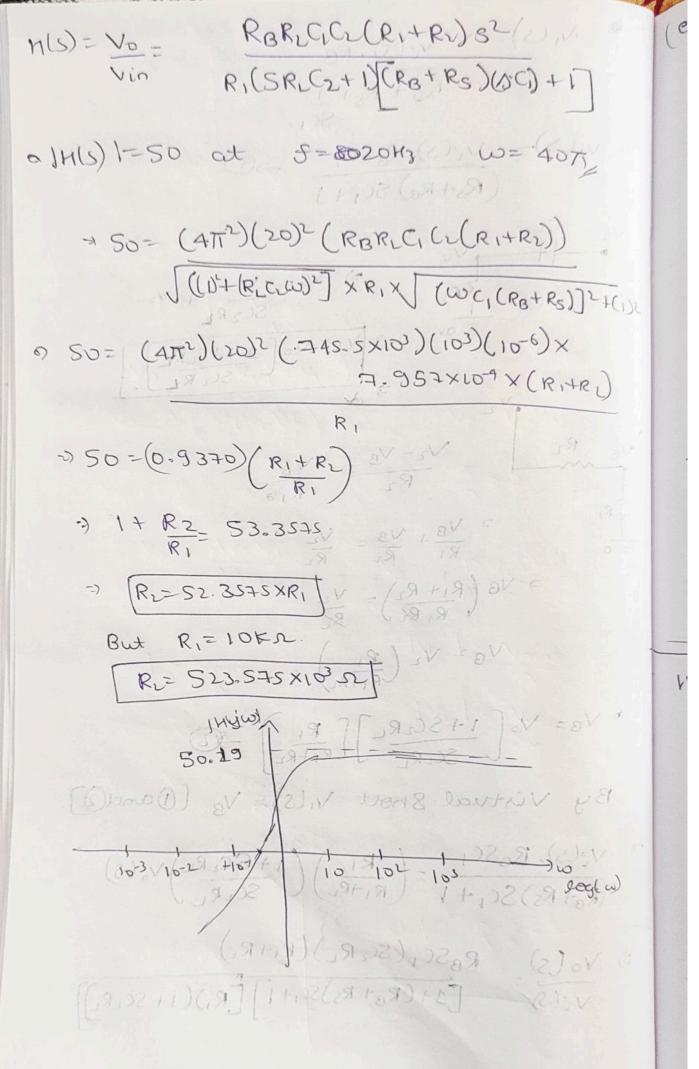


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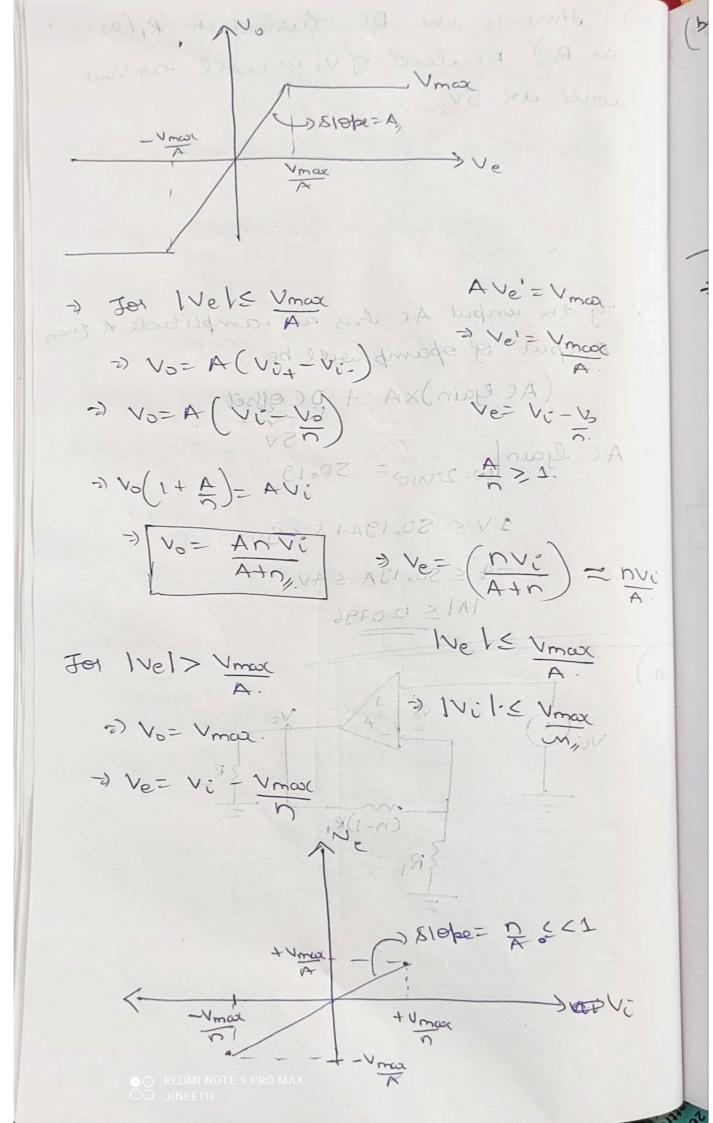


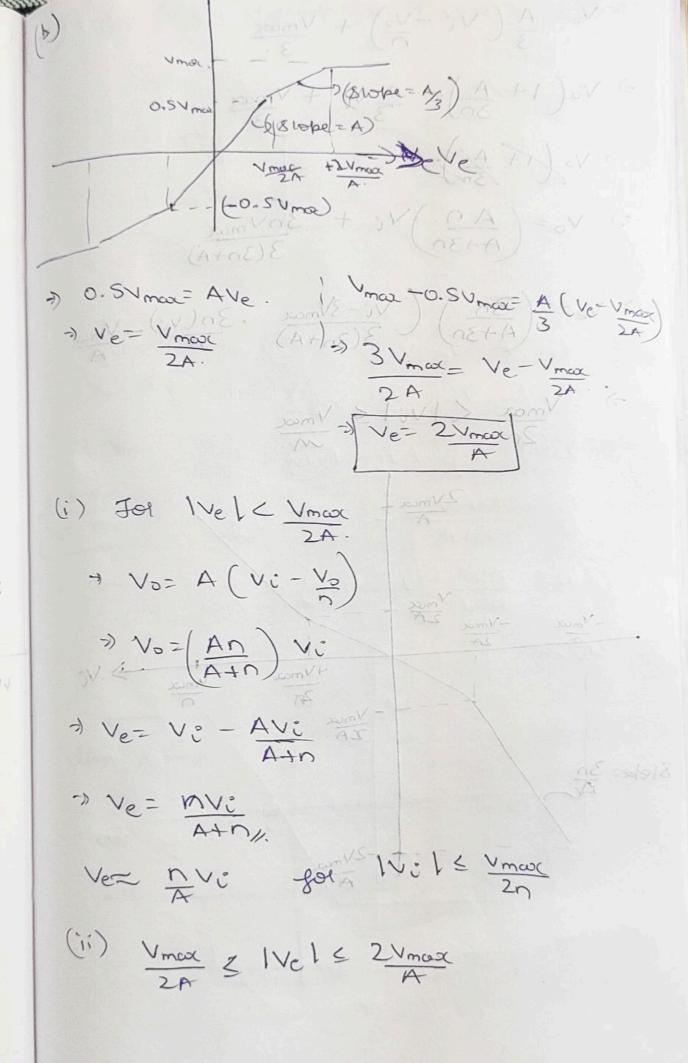
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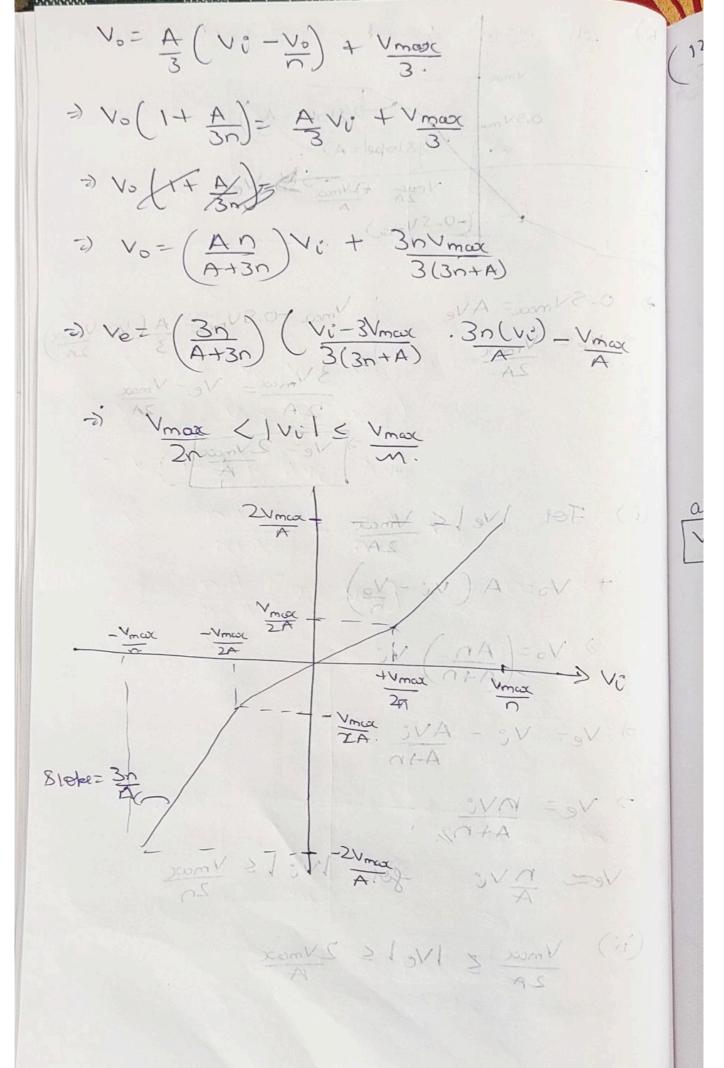
(e.) There is no DC Current in R, Cas wes as Re) De level of vz as usel as vous will be 5V. : If the input Ac has an camplitude A tren 56 output of opamp will be (Ac Gain) XA + DC offset A = 0 C 9 AC Gain W= 27x103 = 50.19 (4 +1) ov 6 1 V S SO. 19A+ 5 59VA 141 5 00 0786 110 (n-1)R 175 G = 04013 C いかかく

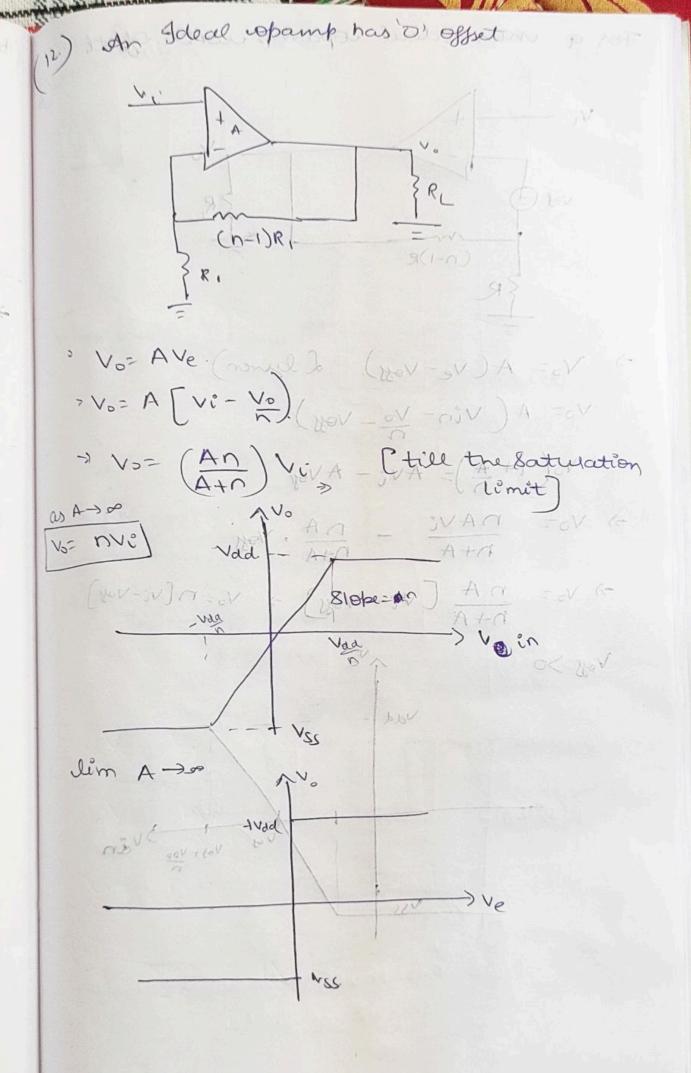




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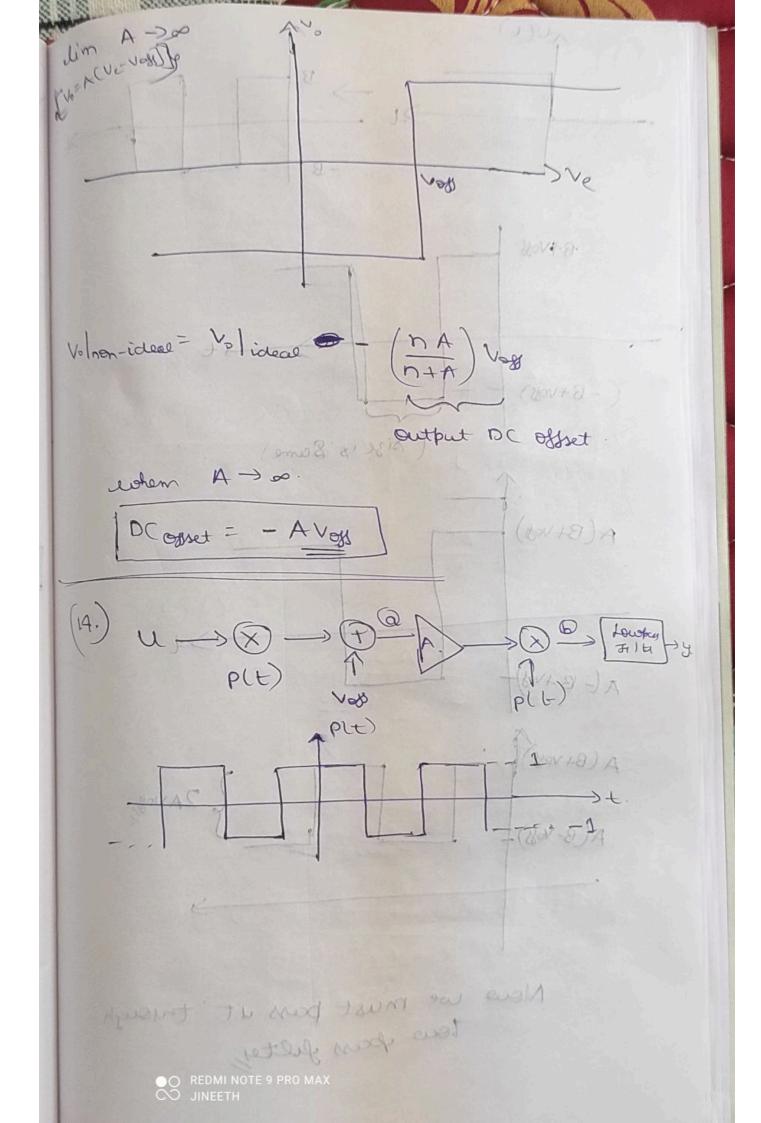
JINEETH

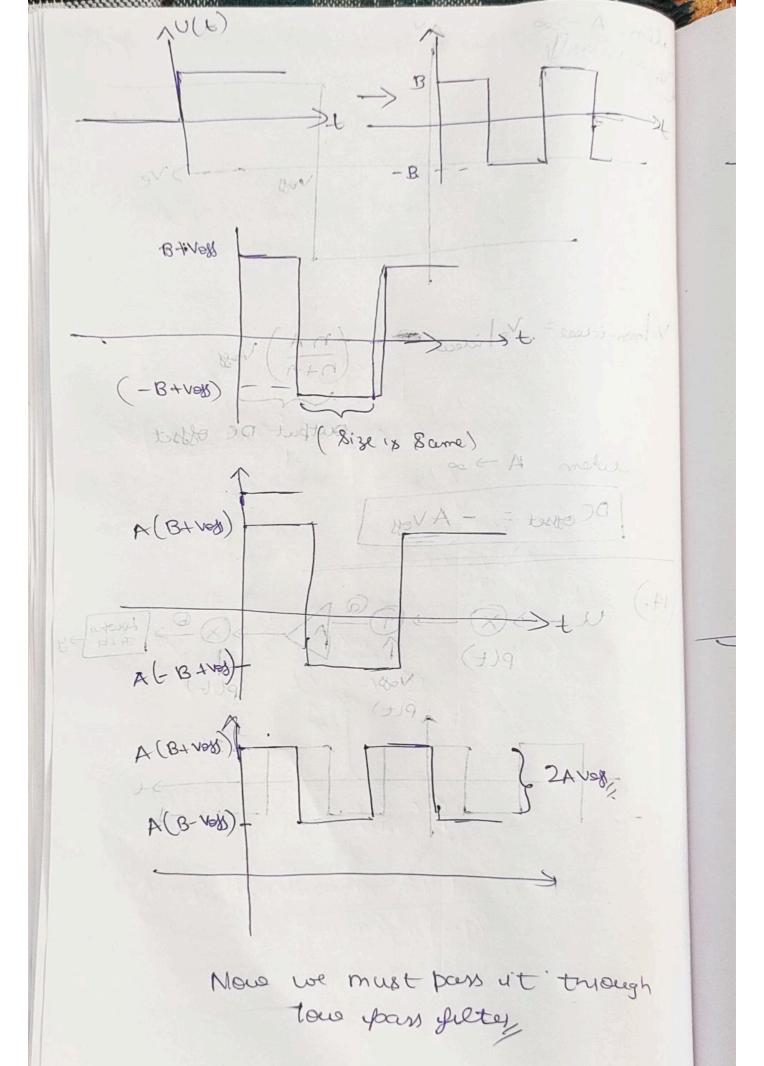




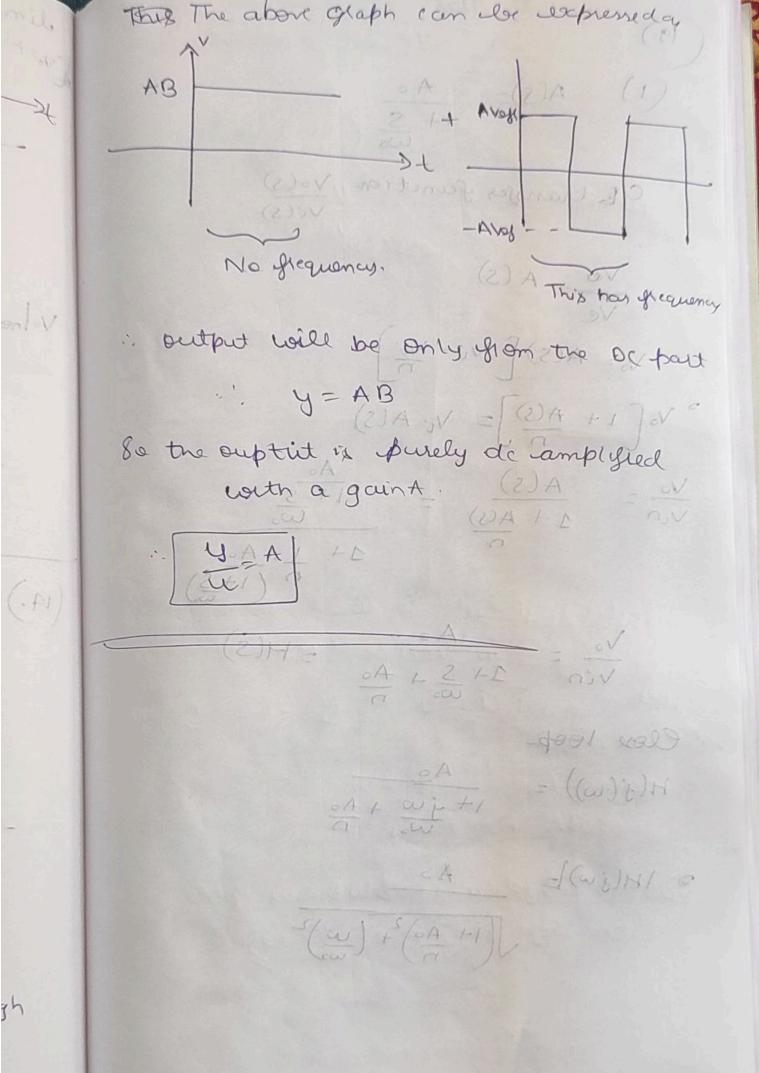
Jos a mon vdeal ropamp worth offset -> Vo= A(Ve-Voys). Llywer) = VA = V Vo= A- (Vin- Vo- Voy) (=V-3V] A = V TO (1+ A) = AVI - AVOY (A) D+A - DAVI LOVA -1) Vo = nA [Vi-Voy) > Vo=n[Vi-Voy)

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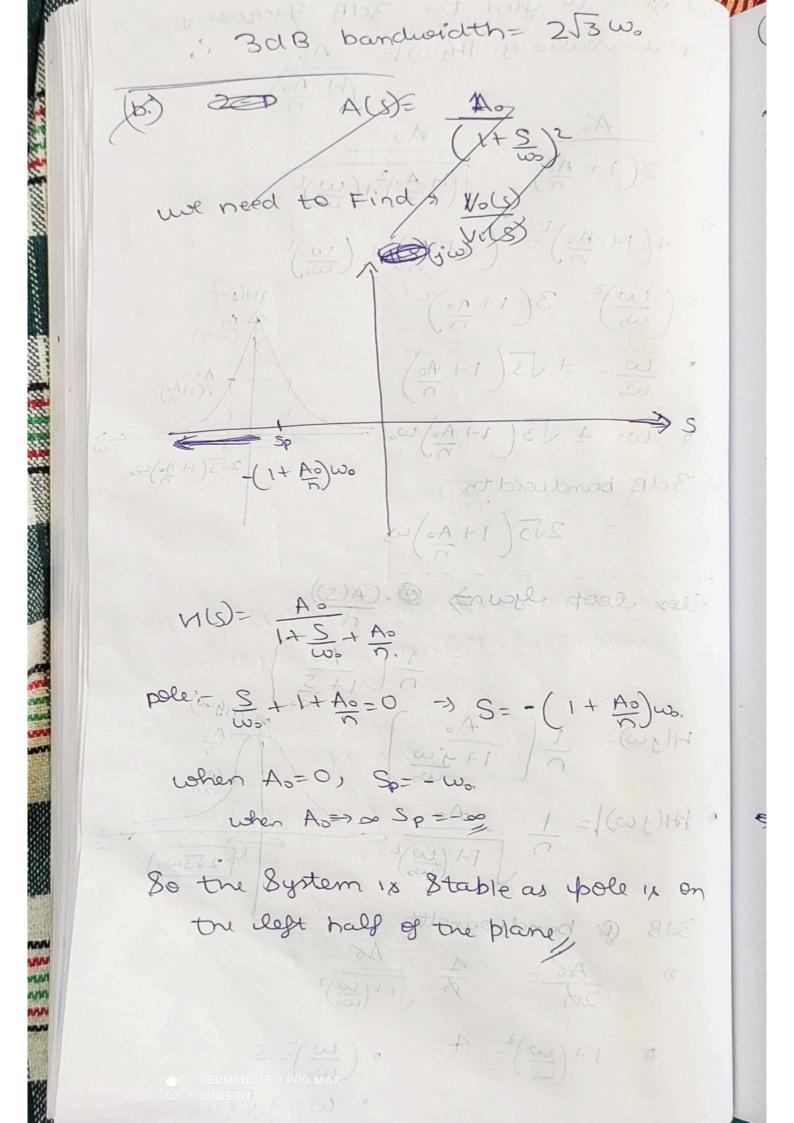
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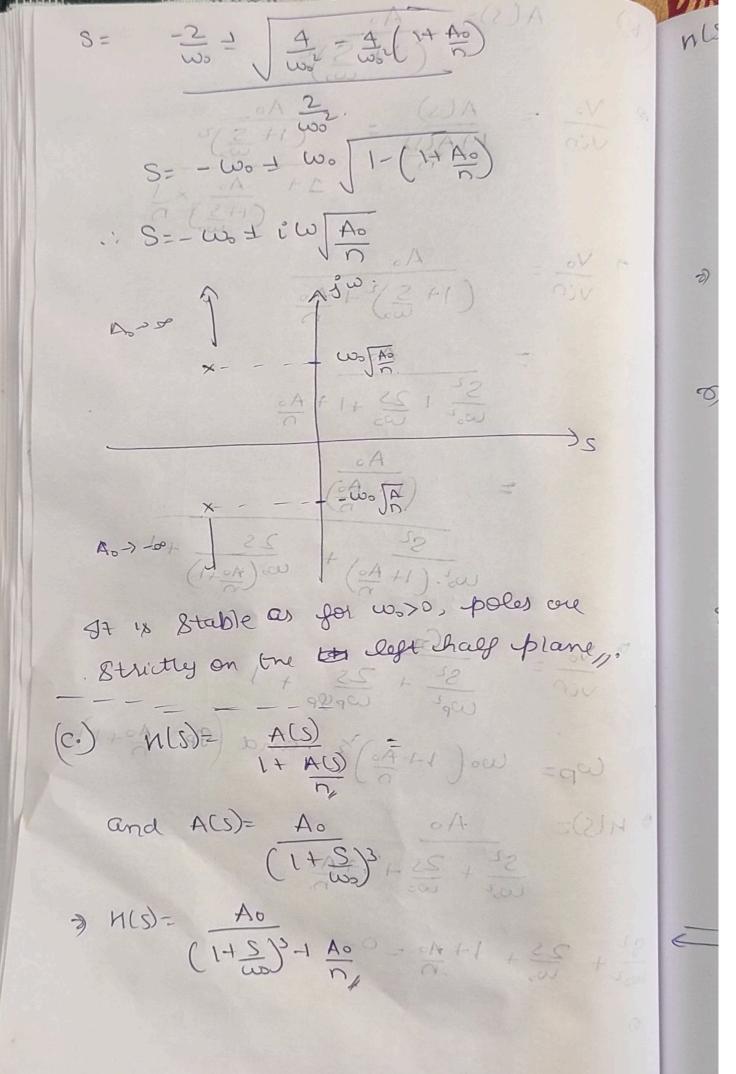
The above glaph can les express (1) A(S)= A0 1+ S Wo CB transfer function Vo(S) Ve A (S) So the supplied of amplified of a street o trad Vot ACS) [North of) a lieu trature Vo Vin = 1+ 5 + 40 = H(S) Close 100p. H(j(w)) = A0 1+jw + A0 o IHIJUDE 11-1 A0)2+ (w)2

we need to find the sais frequency Max value of 146w)1-(H Ao) :. No : 211 No 2(1+ 40) (1+4)2+(20) 1) +(1+ Mo) = (1+ Mo)2+ (w) o(w)2 = 3(1+ A0)2. 9 W= = = 1 \(\frac{1}{5}\) a w= 1 J3 (1+ A0) wo. οω(οΛ +1) 2√3 (1+ A.) ω. : 3dB bandwidth 255 (1+ As) Wo Elex loop you'n @: (A(S)) = 1 (Ao) Ingw) eleg H(3W)= 2 (17 1/2) 1 H(jw) = 1 = 1 (40) 3dB & bandysanotth good you A6 = A (1+(w))2 D REDMI NOTE $\left(\frac{\omega}{\omega_0}\right)^2 = 4$, $\left(\frac{\omega}{\omega_0}\right)^2 = 3$ · W= + \ \ 3 wo.



A(s)= A= Vo - 17AW = (1+ 3)2 (1+ 5)2-1-A0 A = S2 1 25 +1 + A0 1002 1 25 +1 + A0 (1+ A0) Wol. (1+ A0) + Wo (A0 +1) It is stuble as for us >0, poles one vin = Sz + Zs + dy no Entres Cop= Wo (1+ A0) 2 and (90 + A0+1)0 S2 + 25 + (2A b) M(S)= 82 + 25 + 1+ 40 -0-01 1- (21-1) 6)

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$$\frac{S^{3}}{\omega_{0}^{3}} + 14 \frac{35}{\omega_{0}} \left(1 + \frac{5}{2}\right) + \frac{A_{0}}{\Lambda_{0}}$$

$$\frac{S^{3}}{\omega_{0}^{3}} + \frac{35^{1}}{\omega_{0}^{2}} + \frac{35}{\omega_{0}} + 1 + \frac{A_{0}}{\Lambda_{0}}$$

$$\frac{S^{3}}{\omega_{0}^{3}} + \frac{35^{1}}{\omega_{0}^{2}} + \frac{35}{\omega_{0}} + 1 + \frac{A_{0}}{\Lambda_{0}} = 0$$

$$S_{1} = \omega_{0}^{3} - \left(A_{0}\omega_{0}^{3} + \Lambda\omega_{0}^{3}\right)^{\frac{1}{3}} - \omega_{0}$$

$$S_{2} = -\omega_{0} - \sqrt{3} \left[\omega_{0}^{3} - \left(A_{0}\omega_{0}^{3} + \Lambda\omega_{0}^{3}\right)\right]^{\frac{1}{3}}$$

$$\frac{1}{2} \left[\omega_{0}^{3} - \left(A_{0}\omega_{0}^{3} + \Lambda\omega_{0}^{3}\right)\right]^{\frac{1}{3}}$$

$$S_{3} = -\omega_{0} + \sqrt{3} \left[\omega_{0}^{3} - \left(A_{0}\omega_{0}^{3} + \Lambda\omega_{0}^{3}\right)\right]^{\frac{1}{3}}$$

$$\frac{1}{2} \left[\omega_{0}^{3} - \left(A_{0}\omega_{0}^{3} + \Lambda\omega_{0}^{3}\right]$$

$$\frac{1}{2} \left[\omega_{0}^{3} - \left(A_{0}\omega_{0}^{3} + \Lambda\omega_{0}^{3}\right)\right]$$

$$\frac{1}{2} \left[\omega_{0}^{3} - \left(A_{0}\omega_{0}^$$