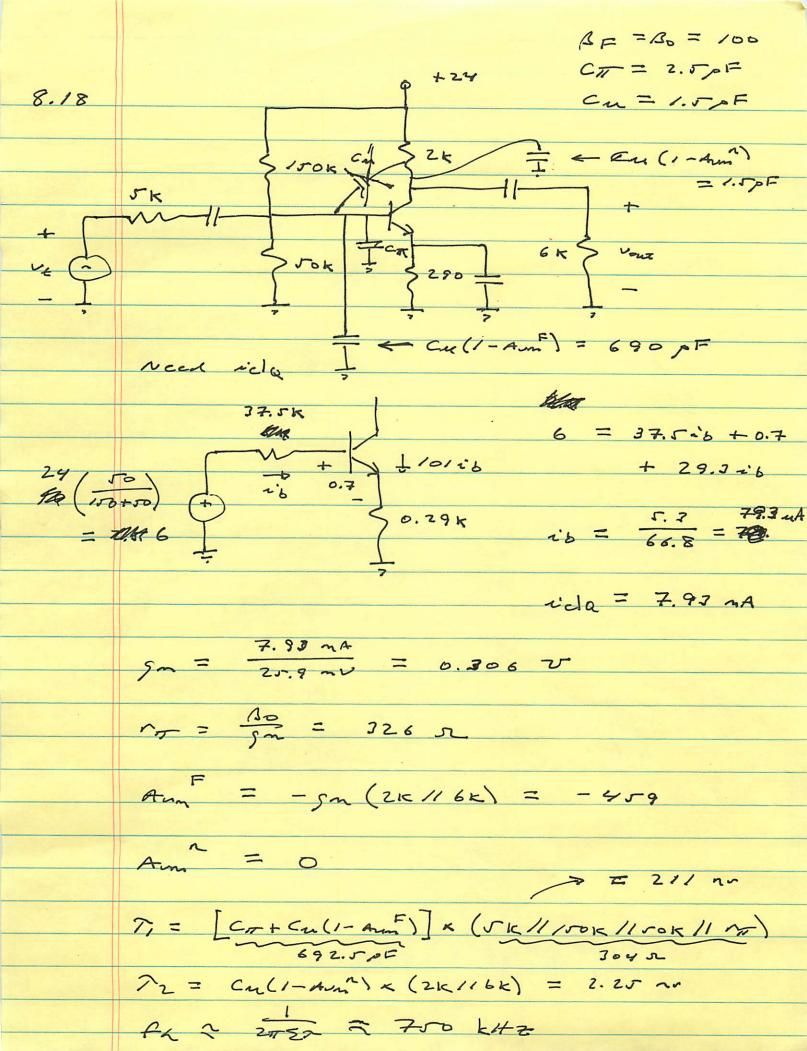
5m = V 2K 1.66mA x 2.8 mA/v = 3.05 × 15 3 V 3.24 11 0.12 20 8.13 A & TOES = 47 MAZ 19 = 2011 Lell = 41.65 - + vala 1 1.66 nd PICINSINX ISKINI 2. 8 x 10 12 41.6 = C5d: reg = na1/102 = 1.8K / どっし、 くるい、 アルハノット Vout 10 kΩ 3 7 2 11 7.24 - 1.4 you + 1.4 bys - 0.25 J. 16 25 9 + 12 V 11 0 0.4 t Voice + 16.18 II KW 10 kQ 27 kg 1.2 150 - 0.4 750 - 2.80 50 \Q 2d = 1.4 (Vso-0.5)2 2 3.24 - 22  $V_{t}$ K' 1 = 2.8 ms/2° Csa = 1.8 pF 2.8 PF 3.24 1 いて ロ ってい 11 05 11 55 C5~ " 11



8.25

 $V_{SS} = S - (10 - 0.771) = 0.771 - 5$  $-ig = v_{x} = 1.8 (V_{SS} + 0.5)^{2}$ 

yr = 0.6 yr + 0.6 yr + 0.15 - 5

0.6 Vgr2 - 0.4 Vgr - 4.85 = 0

$$v_{sr} = \frac{0.4 \pm \sqrt{0.16 + 11.64}}{1.2} = \sqrt{2}, -2.53$$

- vale = 1.8 (-2.57+0.5)2 = 7.42 mA

5m = \(\frac{7}{2\k'\frac{\pi}{2}}\right| \text{vale} = \frac{7.71\kinds{70}}{2\kinds{10}}\text{V}

Aum = garr' + 1 = 0.697

(nr/ = 6.8k/1730 = 715h

Am = 0

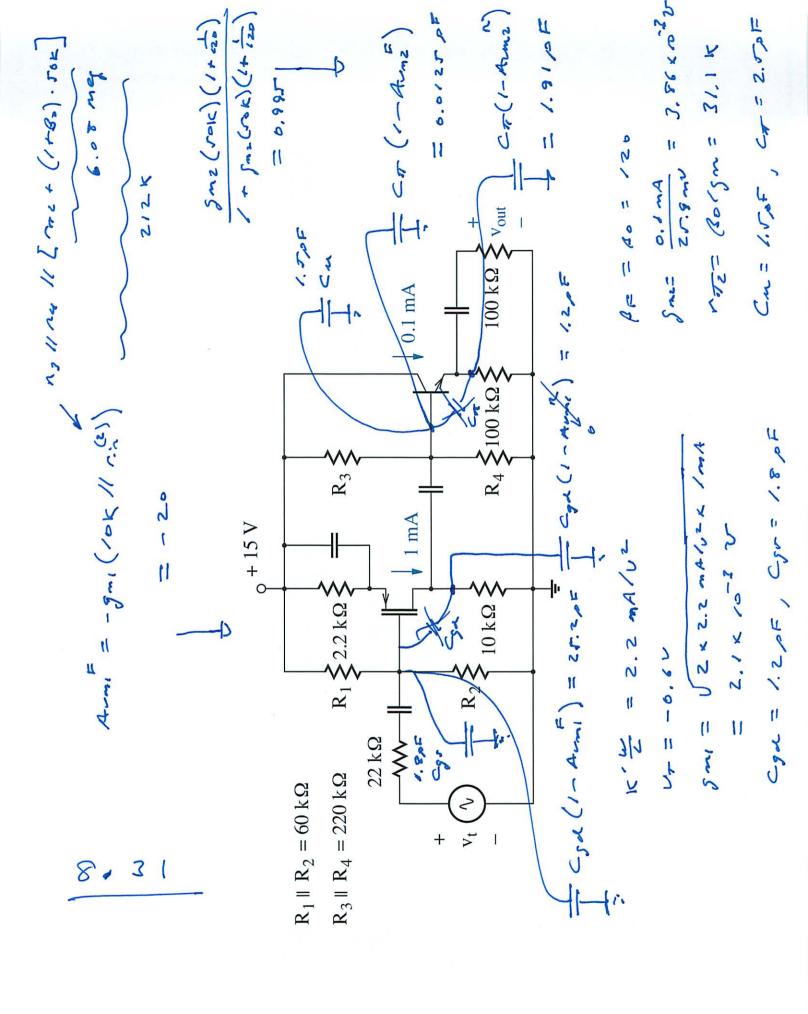
$$T_{i} = \left[C_{SA} + C_{pr}(1 - A_{min})\right] \left(2k 11 10k 11 10k\right)$$

$$2.56 pF$$
1.47 k

= 3.66 ns = 3.66 ns  $= 72 = Cyr (1-Ann) \times (330 \times 116.8 \times 115n)$  = 2.7 ps  $= 95.5 \times 1$ 

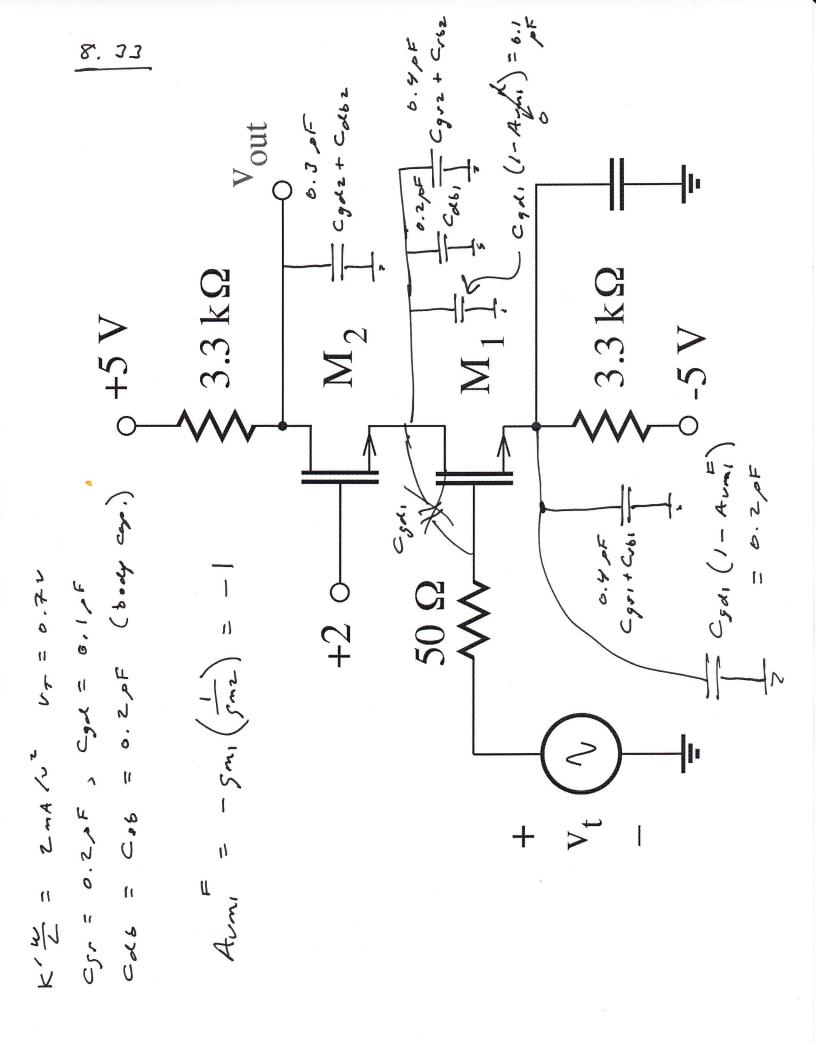
= 0.24 n

fr = 1 = 41 MHZ



Amz 5 mora + 31.1K JOK 1' = nallay 11 lox 100K 11200K

MOSFET gete C, = 1.8 pF + ZV. 2 pF = 27 pF reg = 22 K// N// = 16.1 K T, = 16.1 K K C, = 43 F nr morret dran Cz = 1.2pf + 1.5pf + 0.01crps reg = 10x // rin = 9.55 k n2 = 9.55 k x C2 = 25.9 nr BIT enite Cg = 1,91 pF reg = 56K // 172 + Maling /110K = 334 sc 73 = 0.774 k x c3 = 0.64 m 57 = 462 nr Ph = 27 = 344 kHz



$$= 1.7 \, \text{U}, -0.6 \, \text{U}$$

$$valle = \frac{1}{2}(2)(1.7-0.7)^2 = 1 mA$$

$$= valle$$

$$Sm_1 = Sm_2 = Sm = \sqrt{2 \times 2nA/b^2 \times lnA}$$

 $m_2 \, dn_{am} \cdot C_1 = 6.3 \, pF$   $veg^{(1)} = 3.3 \, k$ 

7, = 0:2 pF x 7.7 k = 0.99 nr

 $m_2$  voice  $C_2 = 0.1 pt + 0.2 pt + 0.4 pt = 0.7 pt$  = 0.7 pt res res res res res res res

72 = 6.7 pF X 6.5 K = 0.75 m

M. rource C3 = 0.4 pt + 0.2 pt = 0.6 pt

res = 5m, 1/2.3k = 0.474 K

73 = 0.6 pF x 0.474 K = 0.26 nr

ET = 1.6 ar

Pr 2 = 1 = 1 = 100 MHz