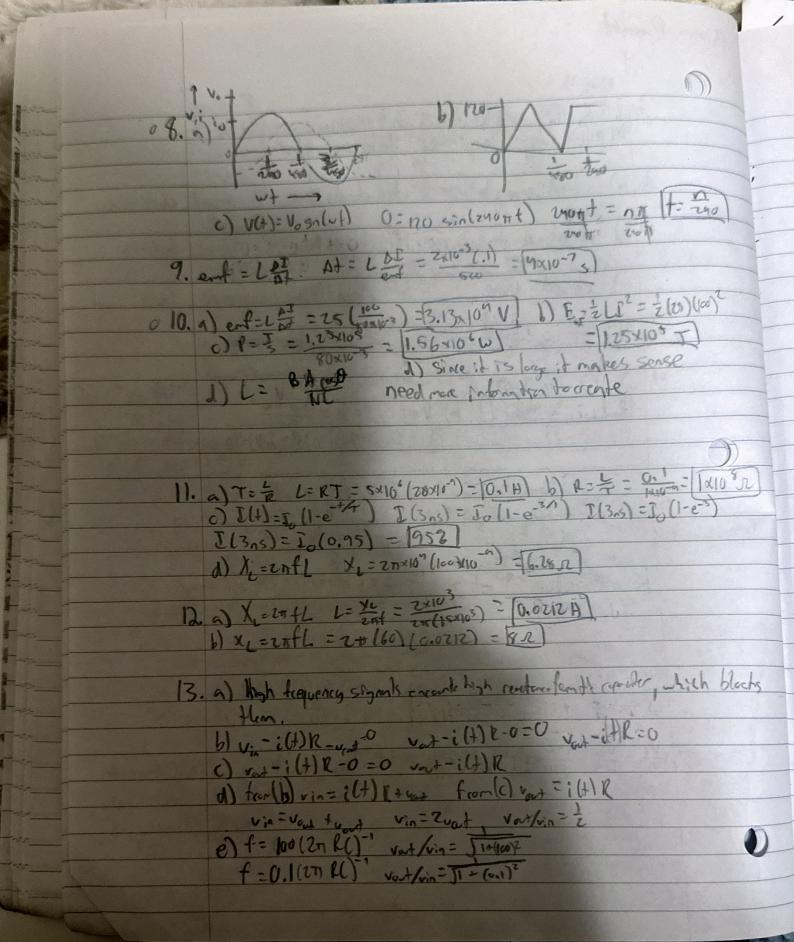
Bland Borrett Viit 4 1.00 00 dekvise decressing: confordative b) income: counter obolinice decreasing; clockuise 2. a) closed: countrobolises left closed: there governd: clockwise b) closed: acinfordalisse loft closed: None Opered: clarkwise c) closed: None left closed: Nanc appred) Nure 3. V= A+ = TEn2) = V D+ = = amps (1, a) O AB= Laut ent: - NAO = NABACOSO = - 1 2(TL2 VIO-2) COSO

[Ent : -3.04x10-3] b) V= IR I= = 3.04x10-3

0.25 [= 0.304A] () P=IV= 0.304 (3.07 x10-3) = 19.24 ×10-12 Q=A(Basing) = BAsing A=ly Brapadala-tes 0 = Blaces (10-01) = BASING (2 00 = 0 B (450 0) 0x (B(5,00) = Blusin 0 6.01 V = NABU N=ABU = 300 (10) (1875) = [50] b) T= + += 27 20 = 298.41 Hz T= 298.71 = [3.35×10-3] 7 alvs = No The Doller - No If = wo to algin what are to beare the new input, or suidoh coils



14. a) for inster = 27 Juano 3)(180°) = 241 10-8 = 6.24410-7 = 15.915 kHz

Af = 60 Q = 1/6 = 100 Juano 5 = 100 × 5 = 100 × 100 = 100 × 100 = 100 × 100 = 100 × 100 × 100 = 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 15. a) Icm = 170 = 10.12 | Ato f 189 = 0.17 n A) & 10/6

b. P= 32R & G. 1/6 P= 0.1212 | 100 = 11.96 m)

(c) 10/6 P= (0.179)2 | 100 = 3.03 m) 16. a) Contr Frequency, lowersidebond, upper sideband b) Decrease gradually to increase bondwidth Unit 5 1. 2) B = Mat = 411×10-1(1×10-4) 277 (0.01) = 3.18×10-10-7 b) The transient charging current 3. a) 1 = A = 14103 V C) T = 24 CE2 E = JET = JEC107 = 188) 01 m/s = 3.33 ×10 m

5. a) n; = cv / cv n; = cs 1.31 = [0.992]
b) n; sin(8) = n; sin(6) 1.33 sin30 = 1.31 sin(9) = 30.50 6 a) j + j; = 1 flat flat = j of - d = indo

f-do = no no = fdo n = fdo

flo = fdo b) as (f-d) appears 0, mappiness 00 c) image height becomes brigger linge located at intinity 7. a) $N = \frac{11.35}{107.2} (6.02 \times 10^{23}) = 3.30 \times 10^{22}$ $M = \frac{11.35}{207.2} (6.02 \times 10^{23}) = 6.595 \times 10^{21}$ b) $\frac{1}{10} < \frac{1}{2}$ 8. Ay 2 Ey = 100 2 1 00 e- my 10 = 1 e- 100 mx Ex 1 e- 100 mx = 1 e 100 mx = 100 m 9. $\lambda = \frac{h^2}{(115)^2} = \frac{1.13 \times 10^{-3} \text{ m}}{1.000} = \frac{613.4}{1.000} = \frac{6.04}{1.000}$ $N(4) = N. \cdot e^{-\lambda t} N(3600) = 1e^{-1.13 \times 10^{-3}.2400} N(3600) = e^{-6.04}$ $N(3600) = 1.607 \times 10^{-3} (0.1607) \text{ certain of transports from }$ 10. a) D= = 250 × 10-3 = 4.167 × 10-67 b) D= = 250 × 10-3 = 1.25 × 10-4 = 250 × 10-4 = 3 O H=DARBE H=D(1) H=0 125 = 0.125 Su below day that whealthroad