CEREBRATA TARRANA

34(1)- 24(1-1) + 29(1-2) - x(1-1)

5. Y(n) $\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}$

C. $\frac{2}{(2-1/2)}(32-1) = \frac{1}{2-1/2} \cdot \frac{3}{32-1} \cdot \frac{1}{2} \cdot \frac{$

 $h(n) = \left(\frac{1}{2}\right)^{n-1}u(n-1) - \frac{2}{3}\left(\frac{1}{3}\right)^{n-1}u(n-1)$ $= \left(\frac{1}{2}\right)^{n-1} - \frac{2}{3}\left(\frac{1}{3}\right)^{n-1}u(n-1)$

d. |2/21/2 includes 2:1 > 5-lable system modes @ 2=1/3, 1/2.

e. Made correctletion @ Y(2)=32-1 coursing Y(2)= 2-1/2

x(n)= 35(n+1) -5(n)

[.] y (n) - 5/2 y (n) + 1/2 x (n-1) = x (n-1) Uniforce (2-tensform -> 34 (2) - 5/2 [2-17 (2) + y (-1)] - 1/2 [2-17 (2) + y (-1)] = 2 - 1 x (2) + x (-1) = 2 - 1 x (2) + x (-1) 00000

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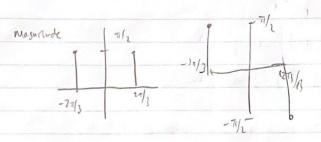
4 (1) = 2(1- 1/1) - {5(-11-12+14(4) = 19(A) = 2-1 41(1)= 2(1- 1/1) - 1/2 (54(-1)-4(1))
(32-1) (-1/1)

2(1-1,y(-1)) - 1 (5y(-1)-y(-2)) - 0 y(-1)-0-3 1-14y(-1) (8 y(-1) = 3/2 y-1)=-1/2 y(-1) = 4/3 y(-1)=0

73 7(-1):0

a) x(n)- cos (Thn) sin(1/2 n) = { sin (27 n)

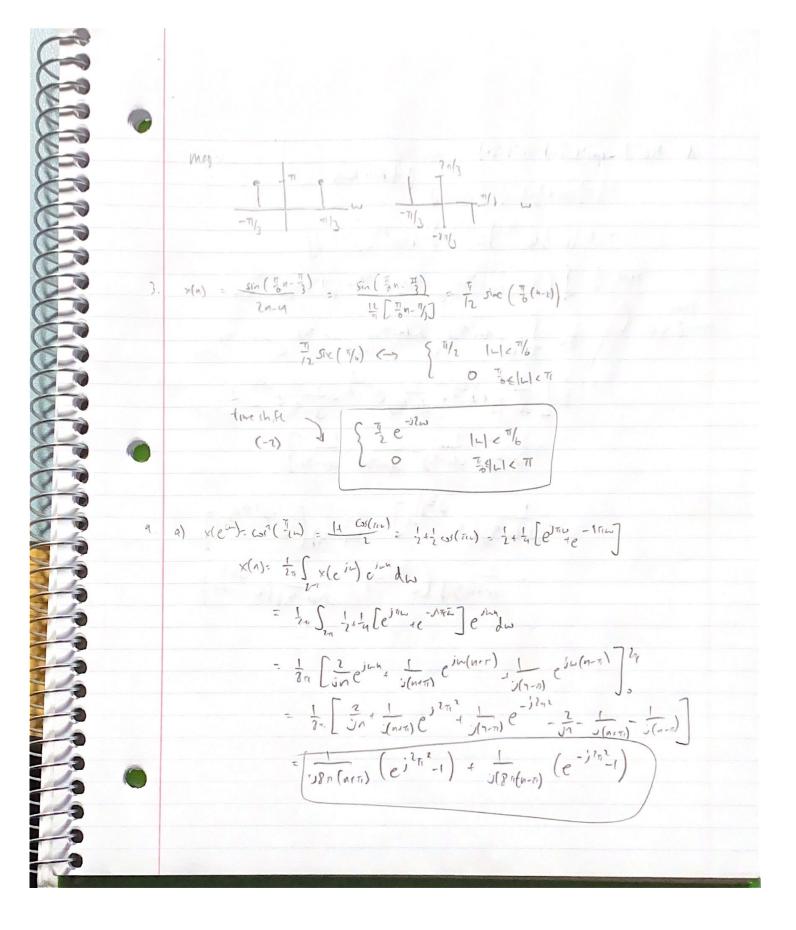
x(ex): 2[-j# (866-27/3)-5(6-27/3)]= -J# (3(6-17/1)-3(6+77/3))



5. ×(1) = 6, (\frac{7}{3}n-\frac{1\pi/3}{3}) \ \(\ref{e}^{1\pi}\) = e^{-2\pi\pi} \[\sum\left[\sum\left[\frac{1}{3}\tau\right] + \sum\left[\sum\left[\frac{1}{3}\tau\right] \]

OTET 6, (\frac{7}{3}(n-1)) \ \(-\eta_1 \text{ phose} = 2\pi/3 \)

The phose = -2\frac{1}{3}\text{ phose}



d- X(e) = cost (20) 7512 (20) = 1 + 1 cos (3 m) 1 - 1 cos(5, m) 2 - 1 kale former = 1+1/2 {(e') w) c') -2 (e) 70 -57-)] x(n) = 1 = 1 = (e; "5 = -; "/2" = = "1/2" e = "1/2" dw lens 5 to C = 1/8 to Su(n+ T/3) sw(n-T/1) sw(n+ T/1) esw(n-T/1) dw 7 [J(4+ 7) e) 23 + J(4- 4/3) e) - 1 (4+ 4/2) e - 1 (1- 4/2) e 18 2 (me 75) (e -1) + 1 (2-2/2) (e -1) -1 - 1 (e 37)

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