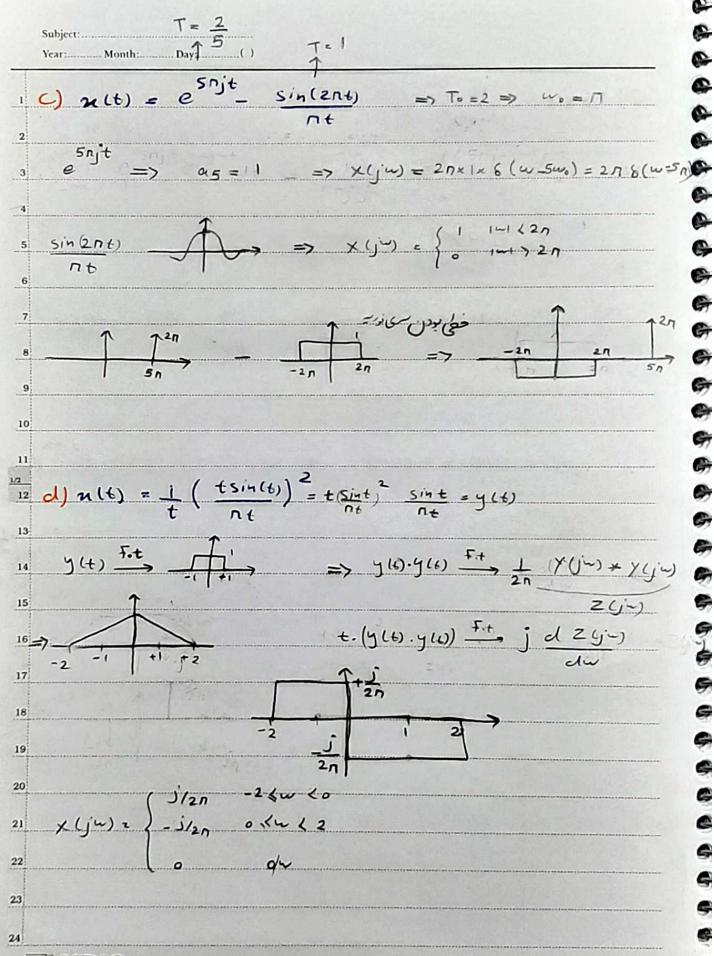
منع خدا تیل بی رم

Subject:			
Year:	Month:	Day:	_()

1	a) x (b) : e (1
2		
3	X(ju): \(\frac{+00}{n(t)} \) e dt = \(\frac{+00}{e} \) -216-11 = jut dt = \(\frac{-1}{2} \) = \(\frac{+00}{2} \) = \(\frac{-1}{2}	
5	$\int_{0}^{1} e^{-2t+t(2-j^{2n})} dt + \int_{0}^{\infty} e^{2t+t(-2t-j^{2n})} ds =$	
7	$\frac{e^{-2}}{e^{-2}} \cdot \frac{e^{(2-j^{-})}/1}{e^{-2}} + \frac{e^{2}}{e^{2}} \cdot \frac{e^{(-2-j^{-})}}{e^{-2}} = \frac{e^{-2}}{e^{-2}} \cdot \frac{e^{(2-j^{-})}}{e^{-2}} = \frac{e^{-2}}{e^{-2}} \cdot \frac{e^{(2-j^{-})}}{e^{-2}} = \frac{e^{-2}}{e^{-2}} \cdot \frac{e^{-2}}{e^{-2}} = \frac{e^{-2}}{e^{-2}} = \frac{e^{-2}}{e^{-2}} \cdot \frac{e^{-2}}{e^{-2}} = \frac{e^{-2}}{e^{-2$	
8	-2 - 2-jw 7 22 F -2-jw	
10	2-jw -2-jw	
11	$\frac{e^{-2+2-j^{2}}}{2-j^{2}} + \frac{e^{2-2-j^{2}}}{2+j^{2}} = \frac{e^{-j^{2}}}{2-j^{2}} \left[\frac{1}{2-j^{2}} + \frac{1}{2+j^{2}} \right] = \frac{4e^{2-j^{2}}}{4+w^{2}}$	
1/2	2-ju +2+ju ====================================	
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Subject:			
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) $\mu(t_0) = 1 + 3 \cos(4nt + \frac{\pi}{3}) = 1 + \frac{3}{2}e^{-\frac{(4nt + \frac{\pi}{3})j}{2}} + \frac{3}{2}e^{-\frac{\pi}{3}}$ Periodic with $T = 2\pi + 1$ and $m = 4\pi$	(4VF
) x (b) = (+ 3 co) (= 1+3e 3 + 3e	1
County (in the last) To 30	
periodic with T= 27 = 1 and us = 47	2
A. S. L. C.	3
$\frac{3}{3}$	4
$\alpha_1 = \frac{3}{2} = \frac{\frac{n}{3}j}{2}$ $\alpha_1 = \frac{3}{2} = \frac{\frac{n}{3}j}{2}$	4
e e e e e e e e e e e e e e e e e e e	5
x(jw) = 2100, 8(w) + 211 a, (w-ws) + 211 a-1, 8(w+ws)	6
	7
Δ; (n3).	
= 278(w) + 3 ne 3/8 (w-4n) + 37 e 3/8 (w+4n)	8
3 C V L C C C C C C C C C C C C C C C C C	9
-uni-10	
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TABBARA CA

	Year:Day:()
	[2
2	a) $\chi(j^{i\nu})$, 28(w+6)
5	$\chi(j\omega)$, $2\xi(\omega+6)$ $\chi(j\omega)$, $2\xi(\omega+6)$ $\chi(j\omega)$, $\chi(j\omega)$
4	217 -00
5	h) x(in) = 2 Sin(3(w-2n)) = 2 sin (32)
6	b) x(jin) = 2 Sin(3(w-2n)) = 2 sin (32) w-2n z z z z z z z z z z z z z
	$e^{j^{2}nt} = \chi(j(w-2n)) = \chi(j(w-2n)) = \frac{2^{n}t^{j}}{(u(t-3)-u$
	$(e^{2\eta + i}) = \frac{1}{2} \times (1 + 2\pi) = \frac{1}{2} \times (2\pi) = $
9	- = { o o u
10	() x(t). 1)2/ 8(w-1) - 8(w+1)] +3[8(w-2n) + 8(w+2n)] e du
11	
12	$= \frac{1}{n} \left[e^{it} - e^{-ti} \right] + \frac{3}{2n} \left(e^{2njt} - \frac{2njt}{e} \right) = \frac{2j}{n} \sin(t) + \frac{3}{n} \cos(2nt)$
13	
14	
15	d) x(jin) = 7j~+46 = 7j~+46
16	-w2 +13jw+42 (jw+6) (jw+7)
17	$= \frac{A}{j^{m+6}} + \frac{B}{j^{m+6}} \qquad A = (j^{m+6}), K(j^{m}) \mid_{j^{m}=-6} = 4$
18	July july - 6
19	B = (Jim+7) x (jim) 1 = 3
20	Ju = - 7
21	74m) 24 3 -> 24 -6+ -74
22	xyim) = 4 = -6t j=+6 + 3 => x(6) = 4 e u(6)+3 e 7t u(6)
23	

TANDIS

Year:..... Day: ____() fin) evely + i iming ا 3/انف) نادرست find eim (n) of the ges fin (1) 2 F(q) = i f in(n) cos (qn) dn - f in (n) sin (qn) dn ۱۱ز آناک رون است و ۱۱۵م زورات ده مل زیراندرای فردی شود که E(ju) * 0(ju) = \(-\infty \) \(\xi\) = \(\(\tau\) \(\xi\) \(j~-j~ => E(j-) = E(j-) => $f(j^{*}) \star O(-j^{*}) = \int_{-\infty}^{+\infty} f(\tau) \circ (j^{*} + \tau) d\tau \int_{-\infty}^{+\infty} -\tau$ =- (-M) O (j -- M) dM = - E (j --) = O (j --) > X(j~)=X(j~) H(j~) y(6) = 2(6) * h(6) 9(6) = x(3+) + h(3+) - 6(j'w) = x(3j'w). H(3j'w) بروای ما در معادر اس منود می ند 16 > y (3jm) = x (3jm) . u (3jm) 17 18 + y(\$) = g(t) A = 1 B = 1 20 21

Year:..... Month:..... Day:....() ju+4 = 71 ju+4 (ju+3) (ju+4) x (j'u). 1 = 1 j 43 (j 473) (j 444) dt: 1 500 | x(ju) 2 du 14 $\frac{1}{2\pi} \int_{-\infty}^{+\infty} |\chi(j^{-})|^2 dw = \frac{1}{2\pi} \left(-\frac{1}{4\pi^2} \right)^2$ 16 17 $\frac{2}{-\omega^{2}+6j^{2}w+8} = \frac{2}{(j^{2}+2)(j^{2}w+4)}$

=> h2(t) = 8(t) + 3 e2 + 4(6)

Year: Month: Day:()	
H (jw): 1-3 jw+1 - jw+1	2
* (jw+4) (jw+4)	3
=> y(jn) = jn-2 = A B + C (jn+y)(jn+3) (jn+4) = jn+1 + B + C (jn+y)	5
$A = \frac{-3}{2 \times 3} = \frac{-1}{2}$ $B = \frac{-5}{2} = \frac{5}{2}$ $C = \frac{-6}{-3 \times -1} = \frac{-6}{2}$	
y(+): -1 e 4(4) + 5 e 4(4) + 2 e 4(4)	9
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