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	Aashutosh Aryal (05)	11 311	entinge	
- 1	COFG Classwork.	phaylite		
	12 11/21/21)	d all	10000	
	(ata) (14) A			
9.	$R(s) - + \otimes + \otimes$	4		→ c(s)
			161 162	<u> </u>
	13 + (13 + D) 3		1	
	2+ p+ p+ (p+2)		1	
28	+	5+1.2		
	Ma = 2/1) = 0 = 0 = 0	5+0.8		
	Mere, 8(+) = 2, R(5) = 2			
	13		790	
	R(5) -+ (3) (d+2)) C(5)	
	5(5+4)+4			
March 1	and the section (P)	18/10/1	24 2	
	+ Stal 2	2)	5(3+4) =	4
		18 2 3 6 6	1+4 1	5(5+4)+4
	5+0.8	2)9 = (3(5+4)	
	(ata)(sta)			
	+0	4 9 9	Cut City	
	$R(5) = \emptyset$	1	→ C(s).	
	J.S(S+4)+49			
	Sto Sto	10		
	512			
				1

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	solving the block diagrams of destudents
	1+14 (5+2)
(9)> <	5(5+4)+4)+
	$= \frac{5(5+4)+4}{5(5+4)+45+8}$
	S(S+4) +4
	8.0 10 52+45+4+45+8
	s ² + 85 + 12
	(18) = = 2 4
	(S+2)(S+6)
	Sò, c(s) = 4
-	R(5) (5+2)(5+6)
(*+(\psi_1,))	on (5) = R(5). 24
	(5+2)(5+6)
	= 2 . 4
	5 (6+2)(6+6)
	$= \frac{981(1212)}{2}$
	5(5+2)(5+6)
	5 /28 \

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	Breaking the expression for (CCS) into postial
	fraction:
	C(5) = 2 - 1 + + + + + + + + + + + + + + + + + +
	35 5+9 (5+6)
	RIO - De Martiel Billion of
	Taking inverse laplace: (It) =-2 e-2t + 1 e 7 et
	$c(t) = -2e^{-2t} + 1e^{-6t}$
	3 3
A	LEAD & BEAL GOLD PO
9.	Or(s) = 45+1 for unit impulse function.
	4s ²
->	En il in al laiteng at paitment
	Now, we have:
	Row, We have,
	R(s) - C(s)
	# Day 18
	Reducing the black diagram: 45+1
	045+1
	<u>- 45²</u>
	1+ 45+1,1) 1 1 to how of airpa
	(10) so (10) \(d 452 \) (1) \
	45+1
	- 4s ²
	452 445 + 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (
	452 (pres) c

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Loite	Exists to As+ de diple tamper sett goldbard
	4(52+5+44)
	110= 145+ A 11 9 = (8)
	(25° +1)2 d 62 28
> =	and the state of t
	So, C(S) = 45+150/10/20 (Dissiple)
	So, $C(s) = 4s + 158/10/2000$ $R(s) + 4(s + 14/2)^{2/2} = (1)$
	ou, C(5) = R(5). 45+1 = 43+1
	4(S+42)2 (25+1)2
	converting to partial fraction,
	1=(3) anitacina astrogoni firm vol 6
	$C(S) = \frac{1}{2} = \frac{1}{2}$
	(25+1) (25+1)
-	
	Taking inverse laplace transform,
	$c(t) = e^{-t/2} - 1 e^{-t/2}t$
	4
	452
	Again, fox unit-step function,
	Again, fox unit-step function, R(s) = 1 . so, eqn 1 be comes;
	5
	EA - L
	$C(s) = 1 \cdot (4s+1) + 1 + 1 + 1$
	5 (25+1)2

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	Breaking into fartial fraction, ((5) = 1 - 2 + 2	R. M.
	5 25+1 - (25+1)2	
	Taking inverse laplace, $c(t) = 1 - e^{-t/2} + 1 e^{-t/2} \cdot t$	- 30
	$((t) = 1 - e^{-t^2 + 1} e^{-t^2}, t = 1)$	
Φ.	Cr(s)= 2 for unit step function.	
⇒	R(5) = 1 for unit etep function.	
	$\frac{No\omega}{C(s)} = \frac{2}{s(s+3)}$	
	R(5) 1+ (2 .1) $(s(s+3))$	
	2	
	= $5(5+3)3(5+3)+2$	
	S(s+3)	
	5(5+3)+2	
	$\frac{1}{2} (6) = R6) = 1 = 1$	1
	s(s+3)+2 s2+3s+2	(5+1)(5+2)

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	Breaking into po	axtial fractions, 4 2 (2)
	C(S) = 3(1)	1 - 11+20 28 3(27)
7	Taking in verse	stoppol mansform,
_	$C(\xi) = e^{-t}$	= -2t 1 + 2 + 3 + L = (+1/3)
-		TELLOS ESTATIONS
	anthous g	ste finis 201 (8 tale (10)
	anitodi	Apt time rol L= (3)
		C Many and
		(210) = (c) 2 /4/12 (2) 14/12 (2) 14/12
		(sire) (sire)
		0 + (0 + a) a 1 1 1 1 1 1 1 1 1
		8(8+3)
		0+(0+2)2
(ata)(sta)	0138433	= (a) = (a) = (a)