$$f(t) \rightarrow f(t)$$
 (4):

$$\Rightarrow F(s) \longrightarrow aF(as)$$

$$f(t) \rightarrow f'(t)$$

$$F(s) \longrightarrow SF(s) - f(s-)$$

$$\mathcal{J}_{s}: \mathcal{U}_{(t)} \to \frac{1}{S} \to \mathcal{S}_{(t)} = \mathcal{U}_{(t)} \to \mathcal{S}_{(\frac{1}{S})} - \mathcal{U}_{(\frac{1}{S})}^{-1}$$

$$\Rightarrow \delta(t) \rightarrow 1$$

$$f(t) \longrightarrow F(s)$$

$$\Rightarrow -tf(t) \rightarrow \frac{dF(s)}{s}$$

$$Jim: -tu(t) \rightarrow -\frac{1}{s^2}$$

$$\xrightarrow{\longrightarrow} t^n f(t) \longrightarrow (-1)^n \frac{d^n F(s)}{ds^n}$$

$$f(t) \longrightarrow SF(S) - f(s)$$

$$f''(t) \rightarrow S(SF(S) - f(-)) - f(-)$$

$$f^{m}(t) \rightarrow S(S(SF(S)-f(0-))-f(0)) - f'(0-))$$

$$\cos \omega_{o}t = e + e$$

$$\Rightarrow (\cos \omega_o t) u(t) \rightarrow \frac{1}{2} \left( \frac{1}{s - j\omega_o} + \frac{1}{s + j\omega_o} \right)$$

$$\Rightarrow (\cos \omega_0 t) u_{(t)} \rightarrow \frac{S}{1000}$$

$$V_{R(s)} = RI_{(s)}$$

$$V_{(t)} = Ri_{(t)}$$

$$V_{(t)} = Ri_{(t)}$$

$$V_{(s)} = RI_{(s)}$$

$$V_{(s)} = RI_{(s)}$$

$$V_{(t)} = V_{(0)} + \frac{1}{C} \int i(t) dt$$

$$\rightarrow V(s) = \frac{1}{c} \frac{1}{s} I(s) = \frac{1}{cs} I(s)$$

$$\frac{1}{S} = V_R(S) + V_C(S)$$

$$\rightarrow \frac{1}{S} = RI(s) + \frac{1}{CS}I(s) = I(s)\left(R + \frac{1}{CS}\right)$$

$$I(S) = \frac{1}{S} \frac{1}{R + \frac{1}{CS}} = \frac{1}{RS + \frac{1}{CS}} = \frac{1}{RS + \frac{1}{RC}}$$

PAPCO

Subject : Year . Month . Date . ( )			
	لا بِلاس معكرس:	Jung Sou Lor	
اليلاس معكا السامعكا	$\frac{1}{2}$ ; $e^{-2t}$	U(t)	
3-	+2 5 1	2	
<u>S</u> +	2 (	S+2	
	S(t)	L, 2 e −2t U(t	)
5 <sup>2</sup>		7 26 1 - 5-20	
S+2	S+2		
	1 2 5 °1		
، سام لا ملاس ان ما می له از م -	سح ولها ره وکریان . ·	5- y -1 : Vi -2	
$V_{o}(s) = R I_{o}(s)$	ش ما می گذاریم	ہے۔ سمای مقاومت ، خود	2
	1 1 7		
- \ \ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(5)(5=	مای فارن ، (s) (s)	
	X es (in)	CL, KVL C	1
		5 _ لا لماس معکرس ک	
1 -			
البست آدريد.	$\frac{S+4}{(6+2)(6+2)}$	نال: لا لماس محلي كس	1
s+4 _ A	(3+2)(3+3) . 18 × (s	+2) ( S+4) (A R(	542
(5+2)(5+3) $(5+2)$	5+3	$ \frac{(S+4)}{(S+3)} = A + B(S+3) = S=-2 $	+3
$+A = \frac{2}{1} = 2$	$\rightarrow \qquad \qquad$	$\left(\frac{5+1}{5+2}\right) = \left(\frac{A(5+3)}{5+2}\right)$	LB)
)		<i>7</i> – <i>2</i>	