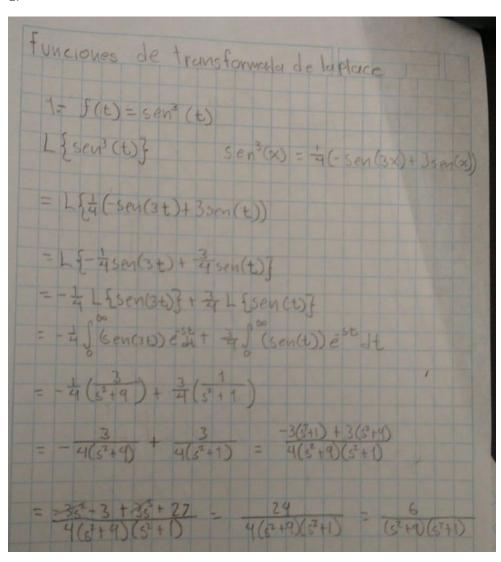
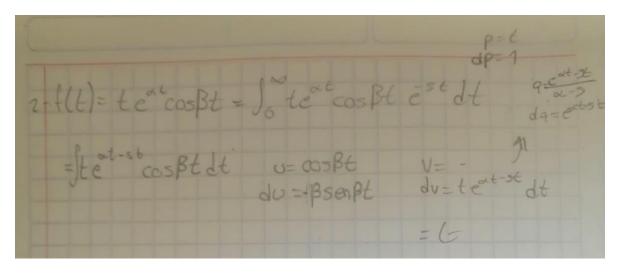
Grupo: 3CM1

Laplace por definición

1.-



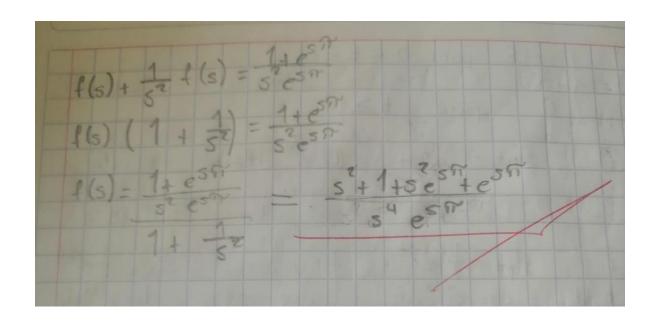
2.-



No la pude concluir

3.-

2 If(1) = In sent estat + for (0) estat = 1 sent estalt -> por partes u=sent v= 1 est | u=cost du=cost dt dv=e-st dt | du=sent = sent (- 1 e st) - [- 1 e st cost dt] = sent est 1 se cost dt = - sent e-st 1 + 3 1 2 5 cos + dt - 1 [lim sent est_ e-s(0) sen(0)] + 1 / e cost dt -- 1 [lim sent est - = 3(0) sen(0)]+ 1[- cost est 1 - 1 | " = 3t sent dt] = - 1 [0 - 0] + 1 [-1 (fin costest-esta) - 1 (2 (sent)) = 0 + 1 [- 1 (- 1 - 1)] - 1 f(s) = \$ [ses + 1 - 1 f(s)] -> 250 + 1 - 2 - 5 e F(s) = $\frac{1+e^{5i7}}{25i7} - \frac{1}{5^2}f(s) \rightarrow f(s) = \frac{1+e^{5i7}}{5^2} - \frac{1}{5^2}f(s)$



4-f(x) = sent-to	T. Ive	st (sent-	tcost)	$d = \frac{1}{4}$	rstdt
4- f(x) = sent-to	ost Jo	1 - 1 6	- 56	p = tsen	6
->u=sent	tat	dv-e-36	dt	dp = Sent.	tcost
- and - Long	(-3e)	+ 3) 6	Local	ldt)	
-sentit cost	e-34 "+ .	1 est	sentat		
1 Phin Scr	t-tcost -st	- sevo .	e .	(a) 1 Ses	tsente
- 5 (1 / dich	5000-00000	ē50 1	+ 1	Sent 3 est)-100 ser
= 3 (8 (15)0	1	Γ0. +-P	141 -5	t-0).	1 00
= 1 1 1 (C) - 3)+3	I dim esc	100	- 1	5 16
-15[3(0	- 3)+ 3	[0-0]	1+3+	(s)	
3 (- 1 7 +	F1 1187				
- 1 1	1	161-	111	1(5)	
= = = + 5	f(s) -	> +121-	23 2		
f(s) - 1 f(s) =	1_>	P(s) (1-	1)=	<3	
4(8) - 3 7 (3) -	53			0	
1(5)-1	3	5-1			
1001-0	7	-4			

5.
$$F(u) = e^{\frac{1}{4}} scn^{2}(U)$$
 $L\left\{e^{\frac{1}{4}}\left(\frac{1}{2}-cos(2L)\frac{1}{2}\right)\right\}$
 $L\left\{e^{\frac{1}{4}}\left(\frac{1}{2}-e^{\frac{1}{4}}cos(2L)\right)\right\}$
 $L\left\{c^{-1}\right\} = \frac{1}{5}L\left\{c^{-1}cos(2L)\right\}$
 $L\left\{cos(2L)\right\}$
 $L\left\{cos(2L)\right\}$
 $L\left\{cos(2L)\right\} = \frac{5}{5^{2}}+a^{2}$
 L