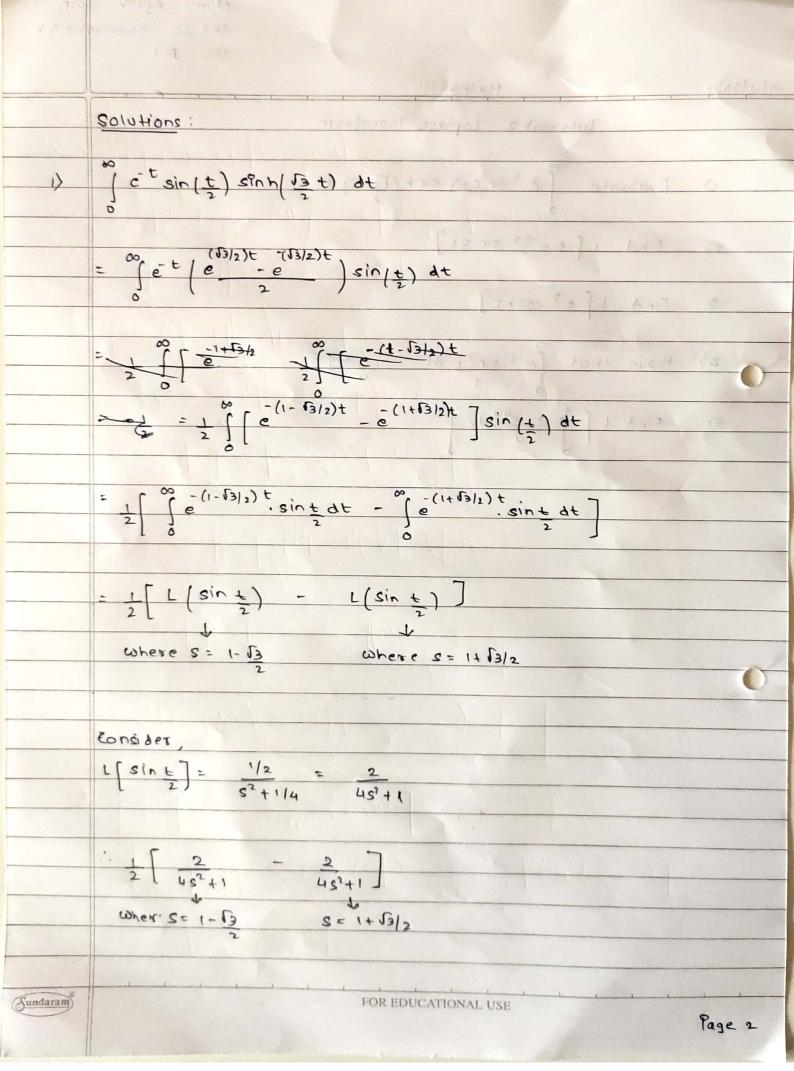
	Name - Ayush Jain SAP ID - 60004200132 Div - IA 1
19/11/2021	Maths - 111
	Tutorial 2: Laplace Transform
1)	Evaluate of et sin(±) sinh(13+) dt
2>	Find [[te-4+ sin 3t]
3>	Find L[t5 cosht]
4>	Prove that set sin2t dt = 1 log 5
5>	Find L T 1-equal 7
	[14 100 ! (all)] - +4 100 ! (ale !)]] .
	[(1))1 - (1)
1	enter establishment de la faire de la fair
	254.576
	1 - 1 W W - 2 - 1 - 1
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	2 [4(1-1312)2+1 4(1+1312)2+1]	
	: 1 [2 9 - 2 2 [4(1-53+314)+1] 4(1+53+314)+1]	
215/0	2 (4(1-53+314)+1) 4(1+53+314)+1)	
	Price (A/2)	
	2 4-4\square 4+4\square 3+4	
0	4-453+4	
	: 1 [2 - 2] 2 [8-4\sqrt{3}]	
	2 [4-2\sqrt3]	
	$\frac{1}{2} \begin{bmatrix} 4+2\sqrt{3}-4+2\sqrt{3} \\ 16-12 \end{bmatrix} = \frac{1}{2} \begin{bmatrix} 4\sqrt{3} \\ 4 \end{bmatrix} = \frac{13}{2}$	
	00 10 10 10 10 10 1 1 1 1 1 1 1 1 1 1 1	
1	$\int_{c}^{-t} \sin\left(\frac{t}{2}\right) \sin n\left(\frac{13}{2}\right) t dt = \frac{13}{3}$	
	0	
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	Scanned with CamScanner	

2>	L[te-4t sin 3t]
	Consider, $L[\sin 3t] = 3$ $s^2 + 9$
	: [[c-4 sin 3 t] = 3 By First shifting theorem.
	NOW,
	: L[te-4= sin3t] = (-1) d [[e-4= sin3t]
	0.5
	3 (s+4)2+9]
	d [3 ds [s²+85+25]
	= 6(S+4) 15 ² +8S+25) ²
	152+85+25)2
	: L[te-ut sin 3t] = G(S+4)
	$\frac{1}{(s^2 + 8s + 25)^2}$
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