



(An Autonomous Institution)

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Laplace transform of integrals:

If
$$L[f(t)] = F(s)$$
 then $L[f(t)] = F(s)$

Paoof:

Let $g(t) = f(t)$ dt and $g(o) = o$ then $g'(t) = f(t)$

We know that

 $L[g'(t)] = SL(g(t) - g(o))$
 $= SL(g(t))$
 $L[f(t)] = \frac{1}{S}L[f(t)]$
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Derivative of Laplace Transform (or) Laplace transformed $L[f(t)]$:

If $L[f(t)] = F(s)$ then

 $L[f(t)] = \frac{1}{S}F(s)$

Paoof:

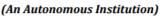
We know that,

 $L[f(t)] = \frac{1}{S}F(s) = \frac{1}{S}F(s)$

We know that,

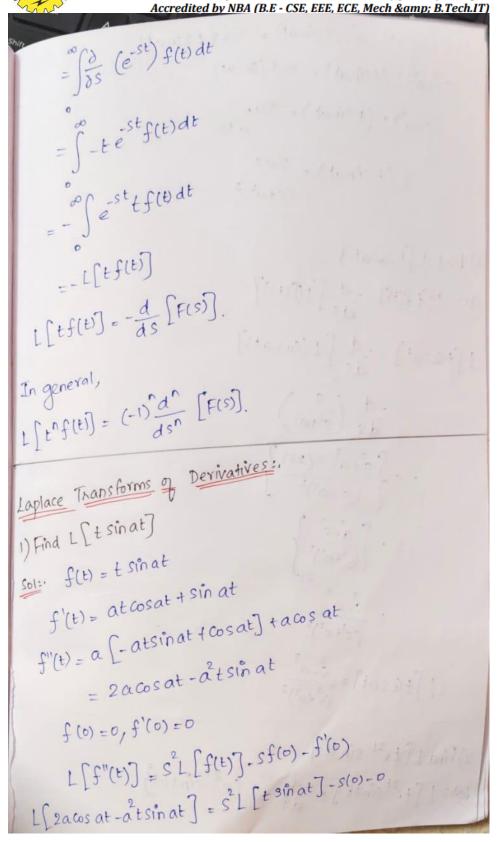
 $L[f(t)] = \frac{1}{S}F(s) = \frac{1}{S}F(s)$
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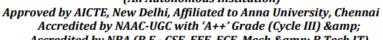




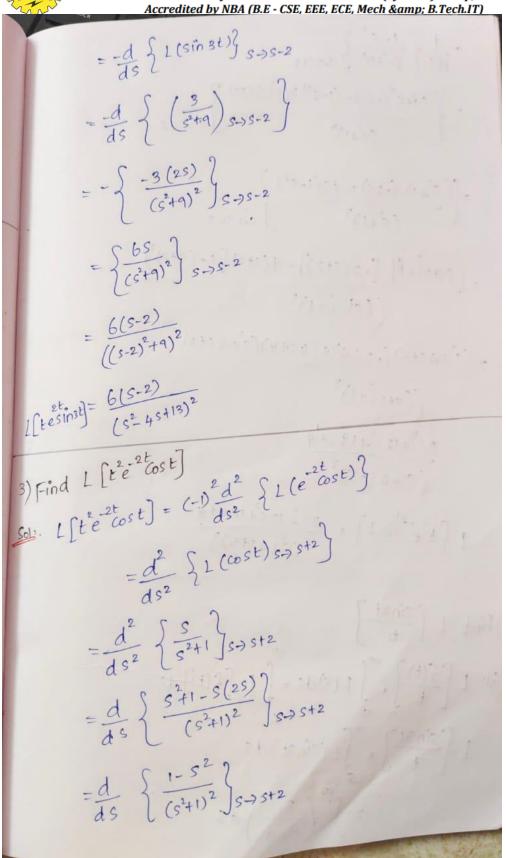


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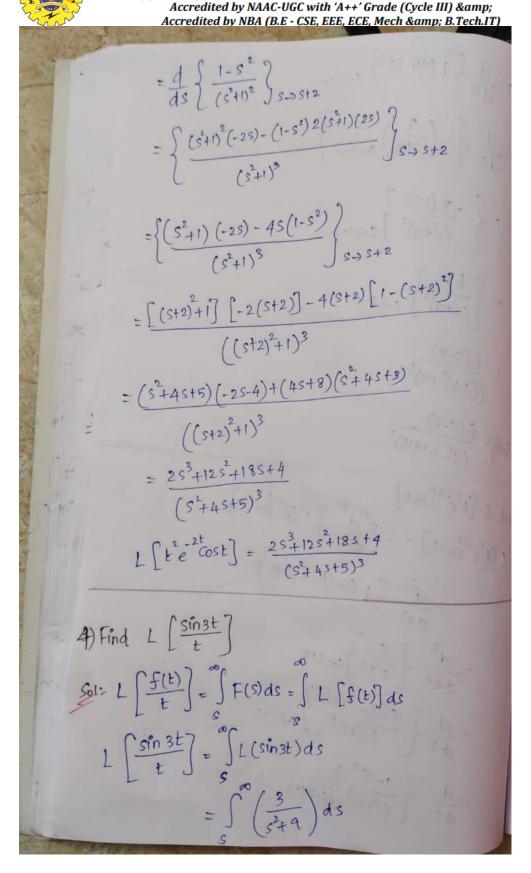




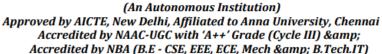




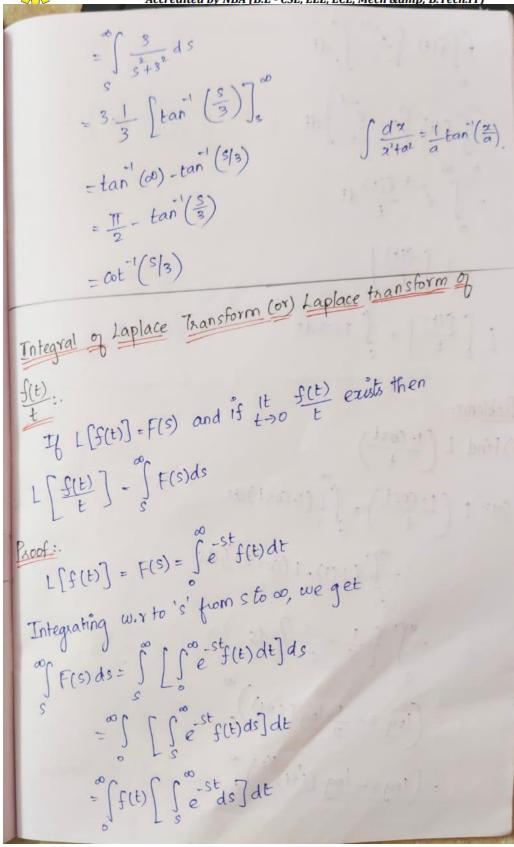




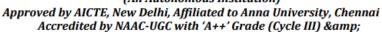




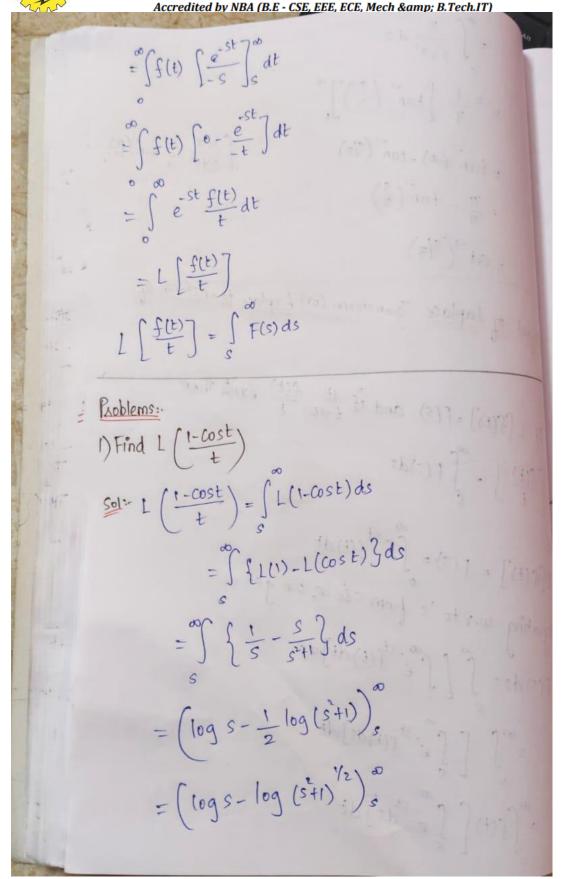




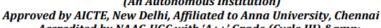




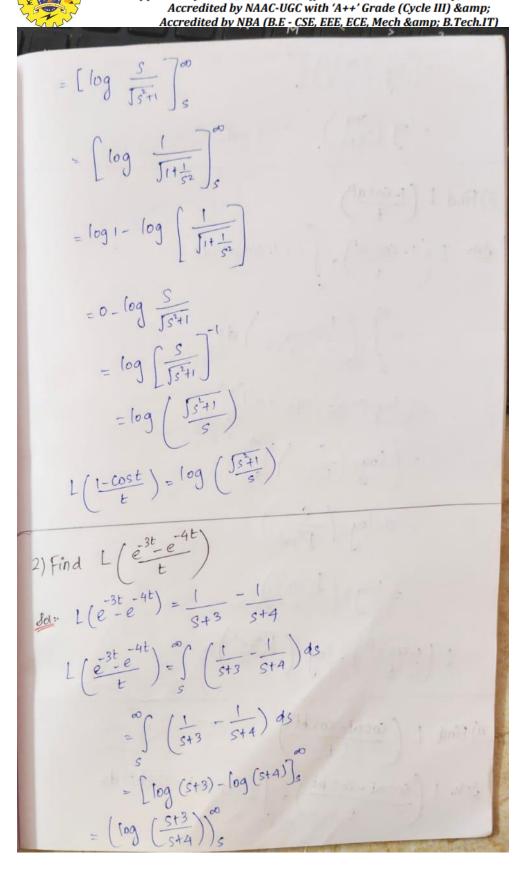




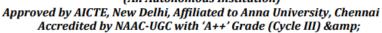




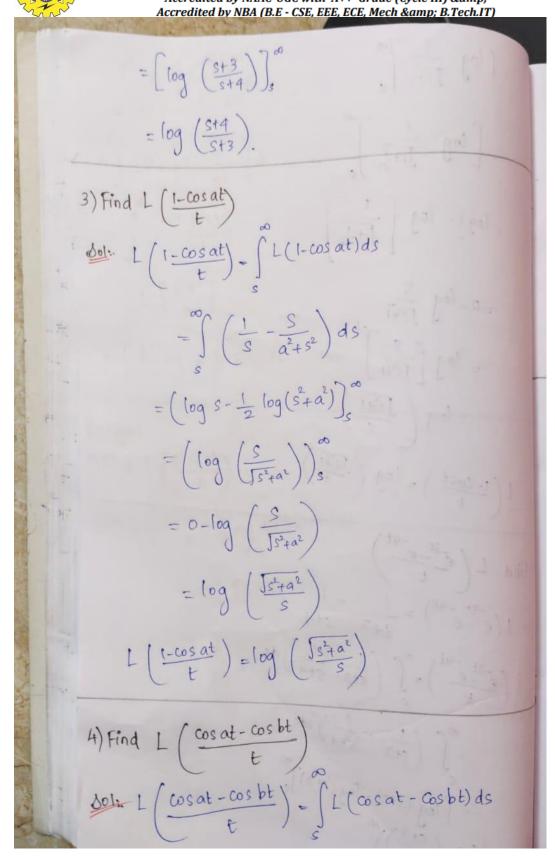


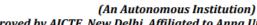














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