

	-
= e - St	
-9 -4	
= e-A - e43	
-3 -5 4 -5 4 -5 1	
$= e^{43}$	
S S S S S S S S S S S S S S S S S S S	
L.T of uft) = for e-stult dt	
-60	1
= 5th e-st dt	
1 20	and the state of
$= e^{-st} \int_{\Omega}$	
-8 Jo	
$= \frac{e^{-\infty} - e^{-0}}{e^{-0}}$	
-5 -5	
3	
M(s) = 5 [e45 - 1]	1
Ls S	
w(t)	
14	W. V.
0 3	
$w(t) = 4 \left[u(t) - u(t-3) \right]$	
- C+ O	
$L.T g u(t) = \int_{0}^{\infty} e^{-st} u(t) dt$	
- 10 - 15 11	
- Ste-stdt	
Carst 7 to	
Scar	nned by CamScanner

$$= e^{-x^{2}} - e^{-x^{2}}$$

$$= 1$$

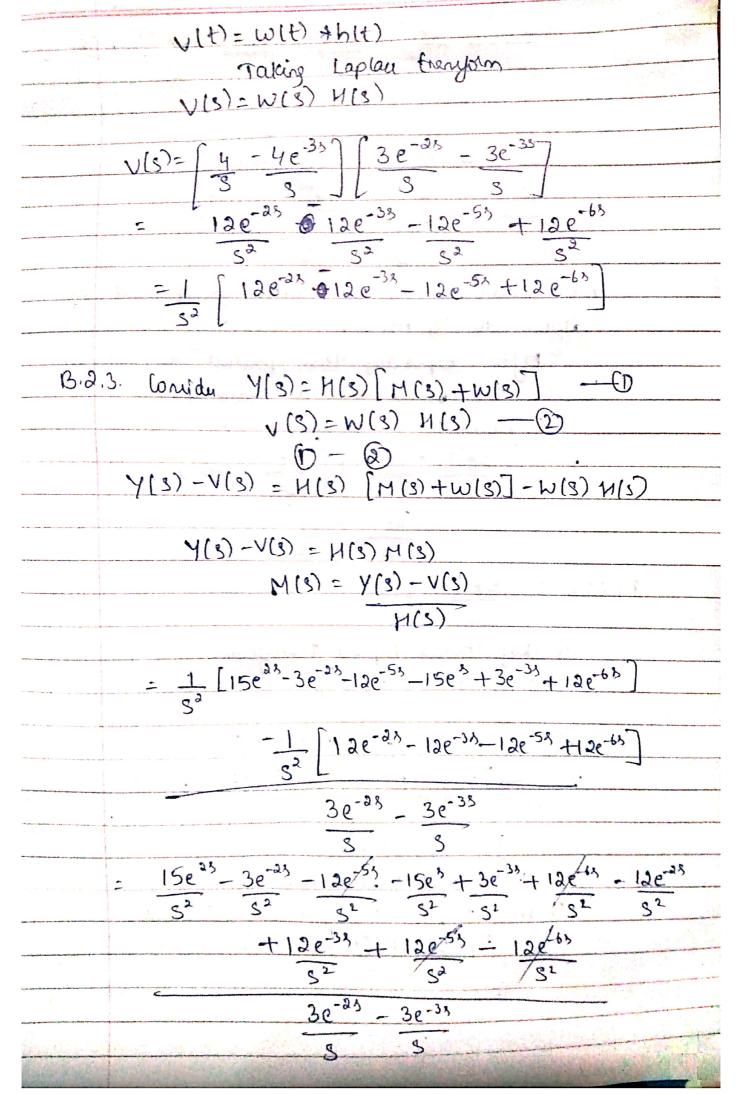
$$S$$

$$= 1$$

$$S$$

$$= e^{-5t} + (t^{2}) = \int_{-5}^{\infty} e^{-5t} dt$$

$$= e^{-5t} - e^{-5t} dt$$



Here numerator can be written as product of denominate & M(s). After expanding this product we will get back the value same as numerated. . numerate can be worthen as $M(3) = \frac{5e^{43} - 5}{3}$ Taking invene laplace transform mit) = 5 [u(++4)-u(+)] S(t)= (m(t) + m(t) B, 2, 4] with 9(t) = S(t) + h(t) y(t) = m(t) * w(t) + h(t) Taking taplace trongon on 60th ride M(8)= M(8) W(8) H(8)

 $\left[\frac{5e^{4\lambda}-5}{s}\right]\left[\frac{y-4e^{-3\lambda}}{s}\right]\left[\frac{3e^{-3\lambda}-3e^{-3\lambda}}{s}\right]$ $\frac{20e^{43} - 20e^{3} - 20 + 20e^{-33} \int 3e^{-23} - 3e^{-33}}{S^{2}} \left[\frac{3e^{-23} - 3e^{-33}}{S^{2}} \right]$ $\frac{60e^{3s} - 60e^{s} - 60e^{s} + 60e^{-3s} - 60e^{-2s}}{s^{3}} - \frac{60e^{-3s} - 60e^{-2s}}{s^{3}} - \frac{60e^{-3s} - 60e^{-2s}}{s^{3}} - \frac{60e^{-3s} - 60e^{-6s}}{s^{3}} - \frac{60e^{-6s}}{s^{3}} - \frac{60e^{$ White analysis

Analyse the effect of change in operation blue
the menage & the watermark on the response. Atleast comment 18 2 para on the above.