



D) Laplace transform of t is
$$\Rightarrow 1$$

2)
$$L(nost)$$
 $\Rightarrow s$

$$57+1$$

3) If
$$L[f(t)] = F(s)$$
, then $L[f(u)du]$ is $\Rightarrow F(s)$.

4) The value of
$$L^{-1}\left(\frac{s-2}{s^2-4s+13}\right)$$
 is

$$0) L\left(\frac{\cos \alpha t}{t}\right) 13$$

$$\frac{2}{5^{2}-65+13}$$
 is

$$\Rightarrow e^{3t} \cos 2t$$

$$\Rightarrow \frac{5^2 - a^2}{(5^2 + \alpha^2)^2}$$





19)
$$\angle \left[\int_{0}^{t} s^{q} nt dt \right]$$

If
$$L[f(t)] = F(s)$$
, then $L[e^{at}f(t)]$ is equal to

$$[\frac{5^{-2}}{5^{-4}}]$$
 is equal to





If
$$L[f(t)] = F(s)$$
, then $L[f'(t)] \Rightarrow SL[f(t)] - f(0)$

$$28) L(t^3).$$

30) If
$$L[f(t)] = F(s)$$
, then $L[f(t)] \Rightarrow \int_{s}^{\infty} F(s) ds$.

Is if $\lim_{t \to 0} \frac{f(t)}{t} = xists$.

31)
$$L[te^{2t}]$$
 $\Rightarrow \frac{1}{(s-2)^2}$

32)
$$L(\Lambda oshat)$$
. $\Rightarrow 5$
 $5^{2}-\alpha^{2}$

33) The value of
$$2\int_{0}^{\pi} s^{2}nt dt$$
 $\Rightarrow \frac{1}{s(s^{2}+1)}$

3)
$$L(t^4)$$
 is equal to $\Rightarrow \frac{4!}{5^5}$.

35) If
$$L[f(t)] = F(s)$$
, then $L[e^{-at}f(t)] \Rightarrow F(s+a)$
is equal to

$$36) 2^{-1} \left(\frac{1}{(s+a)^{2}} \right) \Rightarrow te^{-at}$$

3) If
$$L[f(t)] = F(s)$$
, then $L[f'(t)] \Rightarrow SL[f(t)] - f'(0)$.

38) An example of a function for
$$\Rightarrow$$
 $g(t) = tant$ which the LT does not exist





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integration Je-et_ext at log(21).

41) L(ta) is equal to

⇒ √x (€ €)

42) The value of 1-ex B

1) 1 man (1) 14 - 1 (1) 12 4 43) If L(f(t)) = F(x) then $L(estf(t)) \Rightarrow F(sta)$

15

44) 17 (152)

The voice of L. J. Smith

1:(+1) is equil :

(+ 1)-1(t)]= F(s), + (a) 1)[(t)]

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1 = 2 In 1) = 1(8) = 1 (1) = 120) + 1 (1) + 10)

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