

	Date
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	and the state of t
	-
[ln 2-cost]] [ln 1-4cos0	
lu/2-cosx/-lu/2-cos(0)/ lu/1-4cosx/ - lu	11-4005(0)
lu /2-(-1) - lu /2-1 lu /-1 - lu /-3	
lu3 - lu1 [lu(1) OR	- lu3].
[lu3] (45) (4	
$\frac{\int \ln 3}{\sqrt{2} \ln x} \frac{2 \ln x}{x} dx = \frac{44}{\sqrt{2}} \int_{2}^{4} \frac{dx}{x \ln x} = \frac{4}{\sqrt{2}} \int_{2}^{4} \frac{dx}{x \ln x}$ $= \ln x$	
$u = \ln x \qquad du = \frac{d}{x}$	
$du = dn$ $\int_{0}^{\infty} du = \int_{0}^{\infty} du = \int_{0}^{\infty}$	$\frac{du}{du} \Rightarrow \int_{2}^{4} u^{-2} du$
$\frac{\pi}{12} \int_{-2}^{4} \frac{1}{u} du \qquad \int_{2}^{2} \frac{u^{2}}{u^{2}} du$	4 , 14
Ji [luu] ⁴ [-u]	2 - lun 2
[47] [lu/lux] 2 - [+ 1 enc	7 Lu2]
$\left[\frac{2}{(2)^{2}}\right]^{2} + \ln(\ln 4) - \ln(\ln 2) - \frac{1}{2}$	2+ 1/2 1
$\left[\left(\ln\chi\right)^{2}\right]^{2} \qquad \qquad \left(\ln\frac{4}{\ln 2}\right)$	$\frac{-1+2}{2\ln 2} \Rightarrow \frac{1}{2\ln 2}$
(ln2)2) ln (2ln2.tor)	
	m22 = [m4]
lu (luz) aluz).	

46) 16 dx 2 2x Tenx	47) \(\frac{3\sec^2t}{6+3\tant} \) dt \(\begin{pmatrix} 48\) \(\frac{5\end{pmatrix} \tany}{2+\secy} \) dy \(\frac{1}{2+\secy} \)
U = lnn	u = 3 tant $u = 2 + Secy$
$du = \frac{dx}{x}$	du= 3 sect dt du= secy tamy dy
	$\int \frac{1}{u} du \qquad \int \frac{1}{u} du$
$\frac{1}{2}\int_{2}^{16}\frac{1}{F_{u}}du$	$\frac{\int u}{\ln u + C}$ $\ln u + C$
$\frac{1}{2}\int_{2}^{1}u^{-1/2}du$	[ln 6+3tant +c] [ln 2+secy +c]
$\left[\frac{1}{2}\left(\frac{2u^{2}}{2}\right)\right]^{16}$	$\int_{0}^{\pi/2} \frac{\tan \frac{x}{2} dx}{1 + \tan \frac{x}{2} dx} dx = \int_{0}^{\pi/2} \frac{\sin(\frac{x}{2})}{\cos(\frac{\pi}{2})} dx.$
[(lux)"2]"6	$u = \cos \frac{x}{2} \qquad \left[2 \ln \left(\cos \frac{x}{2} \right) \right]_0^{\pi/2}$
Jen16 - Jen2	$du = \frac{1}{2} \sin \frac{x}{2} dsc \qquad 2 \left[ln \left(\cos \frac{\pi/2}{2} \right) - ln \left(\cos 0 \right) \right]$
14 lug - Tenz	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
2 Ten 2 - Th 2	$\int_{0}^{\sqrt{2}} \frac{du}{u} du \Rightarrow \left[2 \ln u \right]_{0}^{\sqrt{2}} \qquad \boxed{\text{len2}}.$
[Thi2]	$\int_{N_{2}}^{N_{2}} \int_{U}^{T_{2}} \frac{(s) \frac{\partial}{\partial s}}{u} d\theta$ $\int_{N_{2}}^{T_{2}} \frac{(s) \frac{\partial}{\partial s}}{u} d\theta$
$\int_{\kappa/4}^{\kappa/2} \cot^2 t dt$	$\int_{-\infty}^{\infty} \frac{u}{u} = \sin \frac{\theta}{3} c$ $\int_{-\infty}^{\infty} \frac{du}{du} = \frac{1}{3}\cos \frac{\theta}{3} d\theta \Rightarrow 3du = \cos \frac{\theta}{3} d\theta$
Jay sint dt	lu sin (\frac{\bar{\gamma}}{2}) - lu sin (\frac{\bar{\gamma}}{4}) \begin{picture} \frac{\frac{\gamma}{4}}{4} \\ \frac{\frac{\gamma}{4}}{4} \end{picture} \rightarrow \frac{\frac{\gamma}{4}}{\gamma} \rightarrow \frac{\frac{\gamma}{4}}{\gamma} \rightarrow \frac{\frac{\gamma}{4}}{\gamma} \rightarrow \frac{\frac{\gamma}{4}}{\gamma} \rightarrow \frac{\frac{\gamma}{4}}{\gamma} \rightarrow \frac{\gamma}{4} \rightarrow
u=sint du=costat	4 - lu = = [lu [2] 6[lu + 0] - lu + 1].

	Date
(2) f K/12 6 tan 3 x dn	$ \begin{array}{c c} \hline \text{(3)} & dx & \Rightarrow & dx \\ \hline & & & & \\ \hline & & &$
$\int_{0}^{\pi/n} 6\left(\frac{\sin 3x}{\cos 3n}\right) dn$	4= 1+ 12
000	$du = \frac{1}{2fx} dx$
$u = \cos 3x$ $-2 du = 8 \sin 3x dx$	[- du = [lu] 4 c] = [lu] 1+1x1+c]
K/IV Cin 3x	Setutos Situates &
-2 Sin3x dx	(54) sec xdx Tin(secx + Tanx)
-2 \(\frac{1}{u} \du \)	Let: $u = \sec x + \tan x$ $du = \sec x + \tan x$ (Sec x tan x + sec ² x) dx
-2[lu/u1] []	du = (secx) (tanx + secx) dx
- 2 [w/2) - en/1]	du = secxdn.
- 2 lu (1/2)	Janu > S (luu) 1/2 L du
2lu/2	The way of
2(2) lu 2	\$ 2(lu u) 2+ c = [2√lu (secx+tann) + c]
[luz]	113 - 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
of the state of the	27 = 174 × 3
Total March March	1(2) are 1200 - 1(2) well no prose eng.
1 6 (1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	state for the state of
1117 1271	The state of the s