CA // 101	
Exercise 5.4 (1-28)  Date	
Évaluate + The Integral : 18 82121. 15/5 =	(4) f (8)
	-
Sol. 16 - (-69)	f(t)=
$\int_{-2}^{0} (2x+5) du \qquad \int_{-3}^{4} (5-\frac{x}{2}) du \qquad 64+69$	J(+):
Integrating:	Answer
[(0)+5(-0)]-[(-2)+5(-2)]	= (3) +
	(
$-[4-10] \Rightarrow [6]$ Answer. $[20-4]-[-15-\frac{9}{4}]$	(1)
70	7-[-1-3-97
$\int_{0}^{2} (x^{2}-3x) du$ $\int_{1}^{2} (x^{2}-2x+3) du$	7-71/376
$\left[\begin{array}{cccc} \chi^3 - 3\chi^2 \end{array}\right]^2 \qquad \left[\begin{array}{cccc} \frac{\chi^3}{2} - \frac{2\chi^2}{2} + 3\chi \end{array}\right]^{\frac{1}{2}} = \left[\begin{array}{cccc} \frac{20}{3} \end{array}\right]$	Answer.
$\left[\frac{\chi^3}{3} - \frac{3\chi^2}{2}\right]^2 \qquad \left[\frac{\chi}{3} - \frac{2\chi}{2} + 3\chi\right]$	1
$\begin{bmatrix} 1 & 3 & 1 & 1 & 2 & 1 & 1 & 1 & 1 & 1 & 1 & 1$	(1-)+1
$ \left[ \frac{(2)^3}{3} - \frac{3(2)^2}{2} \right] - \left[ \frac{(0)^3}{3} - \frac{3(0)}{2} \right]   \left[ \frac{(1)^3}{3} - (1)^2 + 3(1) \right] - \left[ \frac{(1)^3}{3} - (-1)^2 + 3(-1$	1) 1 14 5
181 - 2	- (3) =
$\left[\frac{8}{3} - \frac{12}{2}\right] \Rightarrow \left[-\frac{10}{3}\right]  \text{Answer}  \left[\frac{3(4)}{2} - \frac{(4)^4}{14}\right] - (0)$	((3) =
(5) [4/2x x3)	get the teo
$ \begin{array}{c c} \hline S \int_{0}^{4} (3x - \frac{x^{3}}{4}) dx & \boxed{\frac{48}{2} - \frac{256}{16}} \Rightarrow \boxed{8} \text{ Answe} \end{array} $	1 (0)
tt, 3.	(0) [-]
$\int_{0}^{4} \left(3x - \frac{x^{3}}{4}\right) du  \bigcirc \int_{-2}^{2} \left(x^{3} - 2x + 3\right) dx.$	
3-2	(1,1-)
$\left[\frac{3x^2}{2} - \frac{x^4}{16}\right]^4$ $\int_{-2}^{2} (x^3 - 2x + 3) dx$	(

		Date
$\left[\frac{\chi^4}{4} - \chi^2 + 3\chi\right]_{-2}^2$	[ 4 - A+6]-	[ K - 16 - 61] 68 9
$\frac{(2)^4}{4} - (2)^2 + 3(2) -$	[(-2)4 - (-2)2+3(-2)]	[12] Answer
3 5' (x + 5x) dx 8		$\int_{0}^{\pi/3} 2 \sec^{2} x  dx$
		Sold 2 sec n dn
7 3 1	$-5(32)^{-1/5}]-[-5(1)^{-1/5}]$	[2 tann] T/3
$\left[\frac{1}{3} + \frac{2(1)}{3}^{3/2}\right]$	[-=]-(-5)	2tar( ]
3 > 11 Answer	Auswes. (2)	[\$73] Answer.
$O(1+\cos x) dx$	(1) Sar/4 cscd cot 0 do	4 sec u Tanu du.
$\int_0^{\pi} (1 + \cos x) du$	JA14 CSCOCOTO do	$\frac{1}{4} \sec u \int_{0}^{\pi/3} - \left[4 \sec(0)\right]$
$[x + \sin x]_o^{\bar{n}}$	1 07 11	$\left[4\operatorname{sed}\left(\frac{\pi}{3}\right)\right] \Rightarrow 4(2)-4(1)$
(T + sinT)	$\left[-\csc\left(\frac{3\overline{\Lambda}}{4}\right)\right]-\left[-\csc\left(\frac{\overline{\Lambda}}{4}\right)\right]$	4(2) - 4(1)
(0+ sino) = [] Answer	- J2 - (-J2) = D Ans	(A) -
12		) + \( \frac{1}{4} \sin 2(0) \] - \[ \frac{1}{2} \left( \frac{1}{4} \right) + \frac{1}{4} \sin 2(\frac{1}{2} \right) \]
$\int_{\kappa/L}^{0} \frac{1 + \cos 2b}{2} dt $	$\frac{\overline{\Lambda} + \frac{1}{4}\sin\overline{\Lambda}}{4} \Rightarrow \frac{-\overline{\Lambda}}{4}$	mswer.
	*	1. 1.

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$(\frac{14}{4}) \int_{-\sqrt{1}}^{\sqrt{1}} \frac{1-\cos 2t}{2} dt$	15) Still tan 2 x du
J-1/3 2	
$\int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} \left( \frac{1}{2} - \frac{\cos 2t}{2} \right) dt$	$\int_0^{\pi/4} \tan^2 x  dx$
	16 50 (Bec2n-1) dn
$\left[\frac{1}{2}t - \frac{1}{4}\sin 2t\right]_{-\sqrt{3}}$	[tank-x] 0
[= (=) -= sin2(=)] - [=(-=) -= sin2(-=)]	
$\left[\frac{T}{6} - \frac{1}{4}\sin^2\frac{2T}{3}\right] - \left[-\frac{T}{6} - \frac{1}{4}\sin\left(-\frac{2T}{3}\right)\right]$	1-1, (6)5-1
$\left[\frac{\overline{\Lambda}}{3} - \frac{\sqrt{3}}{4}\right]$ Answer	1-X) mower
3 4	(7) 5 1/8 Sin 2x dx
(seex taux) dr	o sin 2x dr
Jo (seentaun) du Gho	Of (1+cosx) die xb x 2 miz Ny (sebee
$\int_{0}^{\pi/4} \left( \sec^{2}x + 2 \operatorname{secxtaux} + \tan^{2}x \right) dn$	$\left[-\frac{1}{2}\cos 2\pi\right]^{\frac{1}{2}}$
TALL	
So (2sec x + 2secxtann-1)dn	1 1 1 1 1 1 1 1 1 1 1
[2tanx + 2secx - x] 1/6	$\left(-\frac{1}{2}\cos 2\left(\frac{\Lambda}{8}\right)\right] - \left(-\frac{1}{2}\cos 2\left(0\right)\right)$
[2tan( =) + & sec (=) - (================================	2-12 Answer
- 100 - 100	(2) (0) 14 cos 21 (1)
253 + 2(-1) - 1	3p
6 variety W.	2 1 + Cos26 36 ( + + Cos x)
$2\sqrt{3}-2-\frac{\pi}{6}$ Answer	C W
	(1)

18 5-1/4 (4sect + T) dt (9) (1+1) dx 15-14	-
1 (1)	(C)
$\int_{1}^{-\frac{\pi}{4}} (4 \sec^{2}t + \pi t^{-2}) dt$	
$\int_{-\sqrt{3}}^{-\sqrt{3}} \left[ (x^2 + 2x + 1) dx \right] \Rightarrow \left[ \frac{x^3}{3} + x^2 + x \right]$	
$\left[\frac{4\tan\left(-\frac{T}{4}\right)-\frac{\pi}{4}-\frac{\pi}{4}-\frac{\pi}{4}}{4}\right]-\left[\frac{4\tan\left(-\frac{\pi}{3}\right)-\frac{\pi}{4}}{3}\right]=\frac{-8}{3}$ Answer	
$ \begin{bmatrix} 4(-1)+4 \\ - \\ 4(-5)+3 \end{bmatrix} \Rightarrow 1053 \Rightarrow Answer. $ $ \boxed{20, \int_{52}^{1} \left(\frac{u^{7}-1}{2}\right) du}. $	5
(2) -3 Answes (1) (1+8) 8 (1+8) 8 (1+8) 8 (1+8) 8 (1+8) 8 (1+8) 8	(8)
$\int_{-\sqrt{3}}^{\sqrt{3}} \frac{(t+1)(t^2+4)dt}{(t^3+t^2+4t+4)dt} = \frac{\left[\frac{u^8}{16} - \frac{1}{4u^4}\right]_{\sqrt{12}}^{\sqrt{13}}}{\left[\frac{u^8}{16} + \frac{1}{4u^4}\right]_{\sqrt{12}}^{\sqrt{13}}} = \frac{\left[\frac{(1)^8}{16} - \frac{1}{4(1)^4}\right]_{-\sqrt{13}}^{\sqrt{13}}}{\left[\frac{u^8}{16} + \frac{1}{4u^4}\right]_{\sqrt{12}}^{\sqrt{13}}} = \frac{\left[\frac{(1)^8}{16} - \frac{1}{4(1)^4}\right]_{-\sqrt{13}}^{\sqrt{13}}}{\left[\frac{(1)^8}{16} + \frac{1}{4(1)^4}\right]_{-\sqrt{13}}^{\sqrt{13}}}$	1
$     \begin{bmatrix}         \frac{1}{4} + \frac{t^3}{3} + 2t^2 + 4t     \end{bmatrix}^{\frac{1}{3}}     \begin{bmatrix}         (\sqrt{52})^8 & 1 \\         16 & 4(\sqrt{52})^4     \end{bmatrix}     $	
$ \frac{\left[4  3\right]}{\sqrt{(\sqrt{3})^4 + (\sqrt{3})^3 + 2(\sqrt{3})^2 + 4(\sqrt{3})}} \Rightarrow \frac{-3}{4}  \text{Answer}. $	
$-\left[\frac{(-\sqrt{3})^{4}}{4} + \frac{(-\sqrt{3})^{3}}{3} + 2(-\sqrt{3}) + 4(-\sqrt{3})\right]$	

@ 5-1 y5-24 dy (1+1)	(3) 1 VE	52+ Js ds	1297 (Mec)
7-3 ys	101	52/43	£W-/ C
J-3 ys-2y dy (1+1)	5/2	22+ 55 ds	12
J-3 y3	CVE	all the same and	13.61
J-3 43 - 24 dy 16 (144)	1 1 (	$1 + 5^{-3/2}$ ) ds	<i>814-</i> / €
	5 9	152 -1/1-	27-1-1-27
$\left[\begin{array}{cccccccccccccccccccccccccccccccccccc$	Js Js	] =1 \[ \sqrt{2}	で (1-2)
[ 3 ]-3		3/4	
$\left[\frac{(-1)^3}{3} + 2(-1)^{-1}\right] - \left[\frac{(-3)^3}{3} + 2(-3)^{-1}\right]$	1/2 -	2 7+1 (3)	12-48+1 Answer.
3 3 3			ŧ
724	A	fler Calculate  137 Answer	train 1 + (1-12)
3 Answers ( 1 )	210	20 Answer	
(24) (8 (x1/3+1) (2-x2/3)	23	T Sin 2x	d 2 5 5 h
$\frac{24}{\int_{1}^{8} \frac{(x^{1/3}+1)(2-x^{2/3})}{x^{1/3}} dx}$	Jr	72 Zsinx	20 13
$-689x/3x+2-x^{43}$	$\int_{K_{1}}^{\tilde{K}}$	Zunkcosh d.	(1+1)
$\int_{1}^{8} \frac{2x^{3}-x+2-x^{3}}{x^{3}} dx$	SA	cosxdu =	[sinx]T
	. 100		3.72
$\int_{1}^{3} (2 - x^{43} + 2x^{-1/3} - x^{1/3}) dx$	n (sin	(1)) - (cin(2)	10 + 1 + 1 1 1
-31 suma	8 <i>E</i>	1 mowes	4 3
$\left[2x - \frac{3}{5}x^{5/3} + 3x^{7/3} - \frac{3}{4}x^{7/3}\right]$	1	[3) + 4 (F3)	frest (12) + 21
, Sh Mr -	4/27	3 1.5/3 1	211243 - 3 (24/2)
$\left(\frac{2(8)-\frac{3}{5}(8)}{5}+\frac{5/3}{4}+\frac{3(8)}{4}-\frac{3}{4}(8)\right)$	9')-(2(1	(1) +	4 ()-/

		Date	
7	(cosx+secx) dx.	(23) \int_{-4}^4  n  du	
1	$\int_0^{\pi/3} (\cos^2 n + 2 + \sec^2 n) dn$	1   x   dn	
	$\int_{0}^{\sqrt{3}} \left( \frac{\cos 2x + 1}{2} + 2 + \sec^{2} x \right) dn$		
-	$\int_0^{\pi/3} \left( \frac{1}{2} \cos 2x + \frac{5}{2} + \sec^2 x \right) dn$	J-4   x   du + J = 1 n   dx	
		- for xdn + ft xdn	
-	$\left[\frac{1}{4}\sin 2x + \frac{5}{2}x + \tan x\right]^{\frac{1}{3}}$	3 4 3 5	
	$\left(\frac{1}{4}\sin^2\left(\frac{\pi}{3}\right) + \frac{5}{2}\left(\frac{\pi}{3}\right) + \tan\left(\frac{\pi}{3}\right)\right)$	$\left[-\frac{\chi^2}{2}\right]_{-4}^0 + \left[\frac{\chi^2}{2}\right]_0^4$	
***	$\frac{5x + 953}{4}$ Answer	$\left(-\frac{0^{2}}{2}+\frac{(4)^{2}}{2}\right)+\left(\frac{4^{2}}{2}-\frac{0^{2}}{2}\right)$	
**		16 Answer	
	$\int_0^{8} \int_0^{\pi} \frac{1}{2} (\cos n +  \cos n ) dn$		
	$\int_0^{\pi/r} \frac{1}{2} (\cos x + \cos n) dn + \int_{\pi/r}$	1 (cosn-cosn) du	
	$\int_{0}^{\sqrt{1/2}} \left( 2\cos n \right) dn \Rightarrow \left[ \sin x \right]_{0}^{\sqrt{1/2}} \rightarrow \left[ \sin \frac{\pi}{2} - \sin \theta \right]$		
	1) Answer		