$\frac{1. a \int x}{4 - x^2} dx$	· Jan x cos s x . I dx
u ; 4-22	, 5-cos 5 x dx → u = cos x
du: -2x -> du : dx	: S-u° dy
d≈ -2×	= _1 u + C = _ cos 6 x + C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 (J-1) 62 y 1 y 1
J 4 -22 2 J 4	CTERRY OF OLDER
$= -1 \left(\ln \left(u \right) \right) + C$	b. p 1 /dz = + A - = A - = A
2	x2 11 + x2
= 1 (n lul + C	r: tan u s
2	$\sqrt{1+x^2}$ dx = 1 du
= 1 In 14-x21+C	COS 2 U
2	5 1 A . 5 . 4
	· (du
b. (dx	tan²u VI + tan²u cos²u
1 /24	J. Chalmed Cercinis 1 du
u = x +4 percent graps	Mn 2 U COS 2 U COS 2 U
du . 1 du . dx	
da	r cos u du → t : Hn u sin²u lie : b lieidte: cos u du ;
E pardu-sir i - al sir j	
	1 = 5 t dt x = 5t -2 dt rose rock 2
0 Vu	
- 5 u = du	= -t-1+C = _ (, C
$\frac{1}{2} \int 2u^{\frac{1}{2}} = \int 2\sqrt{x} + 4$	Yan u
= 2 \x +4] = 2\5+4 - 2\0+4	+ C = 1 + C
= 2/9 - 2/4	$\sin(\arctan(x))$ $\sqrt{1+x^2}$
6-4 = 2//	$= -\sqrt{1+x^2} + C$
The Property of the Contract C	x / (*) 111 - * 2
2. a. $\int \frac{6n^2x \cos^4x}{x} dx$	45- 874-5X 5
tan x	c. $\int x e^{x^2} dx$
, (sin² x cos⁴x dx	. (x . ex 1 dt .)
un z cos z	e ^{x²} . 2x
e fin 2x cos4x . cosx dx	· sex². 1 dt
J 4n x	e ^{x²} . 2
, Sinx cos 5 x dx	=(1 dt = 1 + C = 1 ex2+C
) 2 2 2 "
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d. (x dx	· Sketsa
$\int \chi^2 + \chi - 2$	V
C x m lim dec	A P P I W
(x+2)(x-1)	all our a get fine of a fine
2 . A	si - dis
$x^{2}+x-2$ $(x+2)$ $(x-1)$	A T. L. ON L. T. T.
x . A(x-1) + B(x+2)	N 5 7 222 1
x : Ax - A + Bx + 2B	0 = (10 10) /- +
x = x(A+B) + (-A+2B)	0 4 6 9
A+B 1 =1 + 1 Public x x+1 = 0	· 4 · 1/2 · m) 2 · · ·
-A+2B = 0 1 1 1 1 1 2 2 1 - E	
3B = 1 N 4	+ 1 1 - 1 / 1 =
$\beta = \frac{1}{3} + A = \frac{1}{3}$	2
27 (x dx = (2/3 dx + (1/3 dx	-6
$\int \frac{\pi^2 + \pi^{-2}}{\pi^2 + \pi^{-2}} \int \frac{(\pi + 1)}{(\pi + 1)} \int \frac{\pi^2 + \pi^{-2}}{(\pi + 1)} \int \frac{\pi^2 + \pi^{-2}}{($	· 1
= 2 In 1x +2) + 1 In 1x-11 +C	
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· Luas daerah =
THE REPORT OF THE PROPERTY.	L. Syi dx + Sir(y1 - 42) dx 1
. Paeran D dibatasi kurva y = Vx, garis	
y=x-6. dan garis y=0. Sketsalah daerah D	: [[x dx + [] ([x - x + 6) dx
dan can luasnya!	$= \frac{2}{2} x \sqrt{x} \right]^{6} + \frac{2}{2} x \sqrt{x} - \frac{x^{2}}{4} + 6x \right]^{9}$
=) yı = 1/2	3 16 3 12 11)6
y2 = x - 6	= (46) +2 (27 - 66) -1 (81-36)
y = 0 /	3
•) y ₁ = y ₂	6 (9-6)
$(\sqrt{\chi})^{\frac{1}{2}}(\chi-6)^{\frac{1}{2}}$: 416+18-416-1.45+18
$x = x^2 - 12x + 36$	= 13, 5 satuan luasr
$0 = x^2 - 13x + 36$	1. 2. [M. T. W. T. W. J. L.
0 · (x - 4) (x - 9)	17 35 d
x1 = 4 Vx2 = 9	And
	(- E-1
i in the second of the second	A SAMPAN COLLEGE IV.
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	,

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Pada soal 3, jika daerah D	Date
diputar ternadap sumbu y satu	
kali putaran, tentukan volume	
benda putarnya!	
) ΔVι = π . y, 2 Δy	
= R (y +6) . Dy	
ΔV2 = 10. 11. Δy	
= E y² . Dy	
7	
V = () (y + 6)2 -(y2)2dy	
6	
= 12 124 + 36 - 44 dy	
0) 1 (12) (198 %) (19	
= 11 (11y3+6y2+36y-1 y5)	
0 3	<u> </u>
n (1 3 . / 2 . 2 / 1 . 5) 13	
· n (134° +64° +364 - 545)] 3	
= a (9+54+108-243)-0	
= L (171 - 48,6) 5	
= 122,4 satuan volume //	
×	
	w.*