4-3	
	Joxe dx = xe l'o-se dx u=x dv=e dx
	du=dx v=ex
	$-e-(e^{\times} _{o}^{\prime})$
S.A.S. is is invested as the first the Workship of Advanced consequently about the property of the fillenge and	
	= e - e + 1
	= \
2)	So xsin x dx = -xcax = + Socardx u= x dv= sinxclx
	du=dx v=-cax
	= T+ (Sinx 10)
	= TT
3)	Silnxdx=xlnxli-Sixdx u=lnx dv=dx
	$du = \frac{1}{x} dx  v = x$
	= 21n2 - 5, 1dx
	= 21,2-1
4	Sarctanx dx = x crotonx + C-Six2dx u-avetonx dv-dx
	du-1+x2 dx V=X
	=x arctax+C- \frac{1}{2} \frac{1}{4} \du   \
	= xaretanx - + Inlul+C = xaretanx-+ In 1x2+11+C

W-3			
5)	[ x lm x dx = \frac{1}{2} x^2 ln x + C - \frac{1}{2} \frac{\times}{x^2} dx	W= /NX	∂∩ = ×9×
and have deep and the second of the second have the second property of the second property		du - 1	v=12x2
	= \frac{1}{2} \x^2 \lnx + C - \frac{1}{2} \S x dx	-	
	= \frac{1}{2} \times - \frac{1}{4} \times^2 + C		
6	1 x2ex dx =x2ex + C-S2xexdx	₩- X <sup>2</sup>	dv=exdx
		du= lxdx	
	= x2ex+c-2/xexdx	<u> </u>	dv=exdx
		du-dx	v=e*
	= x2ex+C-2(xex-Sexdx)		
	$= x^2 e^{\times} - 2 \times e^{\times} + C + 2 e^{\times}$		
effektiven og verklare som en		,	
	$= e^{\times} (x^2 - 2x + 2) + C$	***************************************	
		***************************************	
	Sxex dx = - 2 Se du	U=-X2	
THE RESERVE THE PARTY OF THE PA		Ju = -2x	9×
	= - \frac{1}{2}e^{\sqrt} + C		
		The state of the s	
<del>Belon ((1000) (</del>	= - \frac{1}{2} e^{-x^2} + C		
A CONTRACTOR OF THE PROPERTY O		)	
		And an action of the second of	
		,	
چې د د د د د د د د د د د د د د د د د د د			

Serdx = -xex ferdx + C u=x dv=exdx du=dx v=-e-x = -xex-ex+C =-(x+1)e-x + C du= exdx Jex Sinxdx u=sinx V:ex Em= CEXXX = exsinx-Sexcoxxdx+c du= exdx W=(25X\_ = exsisx-(excesx+Sessisxdx)+C du=-sixxdx v=ex - ex (six-cosx)- Soxsibkdx+ C 2 Sex sinxdx = ex (sinx-cax) + C Se' sinxdx = 2 ex Csinx - cosx) + c (0) I sin = x dx = S(sinx) (sinx) dx u=sinx du = Slinx dx du = coxxxx v=-coxx = -SINXCOSX + SCUSTX dx +C = -5110xcosx + 5 1+cos2x dx+C u= 20x = - Sinx cosx + # SI + cos u du + C =-Sinxcox+ 4(u+sinu)+C=-sinxcox+++++sin2x+C

4-3	
	S x2 + 10x + 9 dx = S (x+3)2 dx
	= S ti2 du
- million state provide a service and a serv	= - <del>\frac{1}{1} + C</del>
	= - <del>x+3</del> + C
Marie Marie Carlo Desirato Materialmento estrudo presente de tracessa se produce per de care per aproper que d	
	1 2× 1 2×+10-10
(2)	1 2x 2x+60-60 x2+60x+9 dx
ioren montroles de la constante	
	$= \int \frac{2x+6}{x^2+6x+9} - \frac{6}{x^2+6x+9} dx \qquad u=x^2+6x+9$
	du= 2x+6
	= Stidu - 6 (x+3)2 dx v=x+3
	dv=d×
	= In/ul+C-65 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
## <del>  }**********************************</del>	
	$=  v (x+3)^2 + C - 6(-\frac{1}{4})$
Anniger of the Control of the Contro	- 1x ((x+s) 1+C-6( V)
	=2/n/x+3/ +x+3 + C
	=2/n/x+3/+x+3 + C
The state of the s	
managan kan didi Sala Tiba saan saan saan sala ka dida dida dida dida dida dida dida	
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Caresiix dx = xaresiix - ST-x2 dx+C u=arcsiix dv=dx du=J1-x2 v=x = xarcsinx + C + \( \frac{1}{2} \) \( \frac{1}{4} \) \( \frac{1}{4} \) \( \frac{1}{4} \) \( \frac{1}{4} \) du=-2xdx = xaresinx + Ju + C = xaresiux + 11 - x2 + C  $= \int_0^{\ln b} \frac{u}{e^{2u}} \cdot e^{u} du \qquad dt = e^{u} du$ = So en du u=u dv= endu =-ue/+ Soeudu =-du v=-eu =- (Inb) = Inb - eu / inb =-(Inb) ent +1-e-Inb = - 1 lnb +1 - 15

S(In(+))2d+ u=((n=)2 dv=dz qu= 5 = q+ N= 5 = 2 (IN2)2-2) 1N2 . 595 = 2 (ln2)2-2 Sin+d++C u= ln+ d=d= = 7(lnz)-2(zlnz-S=dz)+C = 2(1/2)2-22/N++2/12++C = f(1/1 +)2 - 5 + 1/2 + 5 + C VO J(In(2))2 dt u=lnz 2 = e<sup>U</sup> dz = e'du = luze du = 42ey-2Susydu+C du= e'du  $U = U^2$ du=zudu v=eu = 42e - 2(ne - (e du) + C n = u du = e du du-du v=eu = u2e" - 242" + 2e" + C = 2 (Ine)2-2= (Ine)+2=+C

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