

(-1,-1)

14-MAR-2011 06:52 F	ROM	TO lisa P.	P.003 Don Oifig		
	Section B_				
			For O		
(27 +1 dx	In 1 (× 1	(4)a) y=4-22	-1	2	
3) (i) (2x+1 dx / 2x+x+5		y=2+2		<u> </u>	
(a) J 2+2+3	At u=x dv=exdx	1.70.20			
lat u = x+x+5	du = 1 V= jedz	houts: y=4-22	<u> </u>	<u> </u>	
		=> 4-22=2+2			
$\frac{du}{dx} = 2x + 1$	sdu=dx =ex	=> 0 = x + x - 2			
W.L.		0 = (x+22x-1)	 		
=> du=(2x+1)dx	=> Judr=ur- Srdu	=> x+2=0 x-1=0 x=-2 x=1	-	 	
1. 1.	$= 3(xe^{x}dx = xe^{x} - 5e^{x}dx$	2221 221			
3 du = dx. (2241)	$= xe^{x} - e^{x} + C$	= A = ((+ ~) (- 1) d~			
	= 72 - 2 + 2	$= A = \left((4-x^2) - (x+1) dx \right)$		 	
=> ((2x41) du (2x41)	1111111	-2	 	 	
J U (2241)	(t) a(t) = Cor4t	$= \int_{4-x^2-x-2}^{2} dx$	ļ. <u></u>		
= (tidu	V= (6) 45 dt	-2			
<u> </u>	•	$= \int_{2-x-2}^{\infty} dx$	 		
=> lg W	V = Sun46 + C)		-	
=> 1/2/2+2+51	C=0, V=2	$= \frac{2x-x^2-x^3}{2} \left \frac{x^{-1}}{3} \right _{x=-2}$	ļ	<u> </u>	
dé	·	2 3 /2=-2			
=> lug 7 - loge 5	=> 9 = 5m0 +C	$=(2-\frac{1}{2}-\frac{1}{3})-(-4-2+\frac{9}{3})$			
9. 95	D 2 = 2 + C		 	+	
=> 13364		=> 9/2	+-	<u> </u>	
	=> 2=C	1//////		1_	
(ñ) (Coshz Sunh z dx	=>v= Smy +2	(b) V1+3x2			
(1) J 60th 2 Such 2 02	1/1/////		+	+	
let u = Suh x	///////////////////////////////////////	0 15 15 2		-	
du = Cool-2c		$h = \frac{2-0}{4} = \frac{1}{2} = 0.5$,		
dx		4 = VI+322			
=> du = Certix d	x		 		
		$x = 0 \cdot 5 \mid 1 \mid 1.5 \mid 2$	T	+-	
$\Rightarrow \frac{du}{Gnkx} = dx$		$y = \frac{1}{1.322} \cdot \frac{1.322}{2} \cdot \frac{2.783}{3} \cdot \frac{3}{3}$	3.605	_	
		A = 15 (1+3-605) + 4/1-322+2-783)		+	
= (Cohi. u. du		31 31	T 4(4)	7	
Color		= 16 (4.605 + 16.42 + 4)	+	+	
= (u du				-	
J w uu	!	= {(28.025)			
= <u>u</u>		= 4117			
5			+	-	
=> Sunt x +c.					
5					
///					
				+	

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Section			,	For O Use (ffice Only
5(4) \(\frac{4}{4}\)(4n+1)(4n+5)	041			1	2
n>1	=> Serves is Cot.				
	Jacobs VS Carl.				
=> \(\frac{1}{(4n+5)} - \frac{1}{(4n+5)} \)		1.	~ 3,		
	(6)(a)	(b) Z	= 2xy+4xy	-5 x	
つ(言一年)+(省一治)+(省一治)+	$f(x) = (\infty x)$	(1) OZ	= 474 + 4y3.	+1074	
2 5	f(0)=(000=1	OX			<u> </u>
	5'(x) =- Smx	<u>ට්2</u>	= 44+0+10	2763	p.
(b) (i) $\sum_{i=1}^{\infty} \frac{2n-1}{4n+3}$	5'(0)=-Sw0=Q	70×	= 4y+101		
N=1	6"(x) = -60x	22			
> lun 4n+3 n-20	$\zeta''(0) = -600 = -1$	540	$c = 4x + 12y^2$	+0	
$\Rightarrow l_{1} \left(\frac{2-\frac{1}{h}}{1-\frac{3}{h}} \right)$	S''(x) = -(-5in) = 5mx		= 4x+1241	1	
n-200 4+ n	f"(0) = Suno = 0	///	1/1/11	-	
=) 2-0	£"(x) = 600 x	(ii)	z= (0)	2129	1
→ 1 +0	S''(0) = 600 = 1			المراجعة	
=) dat. seenes	5(x)= f(0)+5'(0)x+5''(0)x"+5"(0)x	3 + (0) Xy	δ×		
ii) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2! 3!	4!	= -	S(++2;
Nat Nat	= Cox = 1 + (0)x + (-1)x + (0)x3	()x+	2 = -601	*+24)	1.1
$\lim_{n \to \infty} \left(\frac{\frac{n+4}{2n^2+n+3}}{\frac{2n^2+n+3}{2n^2+n+3}} \right) = \lim_{n \to \infty} \frac{n^2+4n}{2n^2+n+3}$	3.	4.	DX2		1
n-00 no n-00 divide lyn?	$\frac{2}{2!} \frac{60x}{4!}$		0×2 = -0	Cx+2	77
$= \lim \left(\frac{1 + \frac{1}{n} \cdot 1}{2 + \frac{1}{n} \cdot 1 + \frac{3}{n}} \right)$	1/11/11	- OZ	= - Sm(2+)	g).	<u> </u>
n-700	(i) 60 x = 1-(x) + (y)	Dy			<u> </u>
$\Rightarrow \frac{1+0}{2+0+0} = \frac{1}{2}$	4 8	02	= - los Carr	1).4	<u> . </u>
as Σπ~ ω (&c.	=> Gox = 1 - x + x	195		124)	1
7 =1 Cat.	1(/////	935 955			⊭
12 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	111) Cox = 1-x2+24-26	25	_ 40'Z		
(iii) $\sum_{n=1}^{\infty} a_n = \frac{5^n}{n!}$	2! 4! 6!	<u> </u>	Oxz		
90+1 = 50+1	12 ffesentials	=-46	(x12y)-4(-6	(2+2)	1)_
1 = 5 = 5 th	3m x = =================================	→ -46	(X427 + 4 60)	242	1
an (n+1)! (n+1)! 8th	=>-Sunx=-x+x3-x5		- > 0	-	
n! = 5					
= lun an = lun = 101 = 0	=> Sunx = x - x3 + x3!		///	1	
n-200 n-200 A				1	