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	Page:
	$p_1 = 1$ e^{2}
7.5.1	2 · 6 5 5
	(8+1) ?= 2(1)
	(8+1) ?-2(8+1)+2
	E32
	- 0 ² (21-1
	$= e^{2} \times (1 + e^{2})^{-1}$
	= 6,5 (1-85+8,1)
	$= \frac{1}{2} \left(\frac{1 - 8 \times 4 \times 4}{1 - 8 \times 4 \times 4} \right)$
	- 110g x.
	So, the general colo is
	= Ax(0s (log x) + Bx sin (log x)+
	is regn sol
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	and + H val
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	i = 2 = 7
	t e e e e e e e e e e e e e e e e e e e
1000	
	E Property of the second secon
	WAR TO SEE THE SECOND OF THE S

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	$3(xp^{9}-y)^{2}=p^{2}-1$	
<u>()</u>	given ey"	
	Np = y	= 1/22-11
	y	=- \ p^2-1 + xp(1)
-	D-11 n	and the state of t
	Diff. eqn	
	1 2 - 1	2\p2-1 dp
		2/ P2-1 41
	b = b4	de Jos-1 de
3 1	0 = - 6	$\frac{dx}{dx}$ $\left(x - \frac{p}{p^2 - 1}\right)$ $\frac{dx}{dx}$
	either,	(177) Tax postbook
	1	
	$\frac{d\hat{p}}{d\hat{r}}$	12.50
	P=C	- (v)
	which gives	4 = c2c - Jc2-1 trom eqn (i)
	91	O the second of the
	7(- 1	P = 0 P
		VP2-1 1/2 5 8
	The Des	P - 5 - (10)
	12	JP2-1
	eq 1 U be	come lusing eq (iv)
	<u> </u>	$= P \times P - \sqrt{P^2-1}$
	O	V p 2-1

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	$P^2 - \sqrt{P^2-1}$	The fact of
	$\frac{y^2 + y^2 - y^2}{\sqrt{p^2 + y^2}}$	12.0
	4 = P2 - (1 p2-1)/2	- 14
	$\sqrt{p^2-1}$	
	y = p + 1 1 you (1)	Pa . 11/11
	yp. 51	- Kin
	JP2-1	
	P ² -1-1	
	p ² = 1 + 1 - v) 11 -	• • 0
	putting ey" (in)	
	21 5 = 75 TI	10
	1+42-1	
P 1	till by making the state of the	I in the l
	7 2 1 + y 2 x y 2	
	$\frac{\chi^2 = 1 + y^2}{\chi^2 - y^2 = 1} \approx \frac{1}{10} + \frac{1}{10}$	j. 501 ²
	(ui) y v y y in 1 y y y	P 9

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5				(5-
	7+29-3		210	
>>>	given eqn become	ζ.	·	
	Inte	- 3dy = 2xdx	+dx	
		2.0.0	Y As .	**
	mail xy + sy2	-3y = 2/x2 +	160	
	34-	y 2-3y - x2+	y 17 3015	
7 mgs	7(2-42	+ x + x y + 3	20 65	r 5017
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	- in at 18	10 155 111)	91 - 1	l.
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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\frac{dx^2}{dx^2} - 2dy + 5y = 10 \sin x$
72	s81".
	Egn can be written ay
	(D2-20+5)4 = 10 sin(1) Td = D1
1	$\left(D^{2}-2D+5\right)y=10\sin(2)$ $\left(d=0\right)$
	io 1th AF o
	$m_1 - 3m + 2 = 0$
	m= 2+ 14-20
4	
	m: 1+2;
	now,
	again (A (0) 2x + B sin 2x)
	PC = 1
j	$\left(D^2-2D+5\right)$
	= 10 sinx
	$(-1^2 - 20 + 5)$
	= 10 sin7 (1-2D
	$\frac{2}{2(D-2)}$
传.	
	$\frac{-1}{2} \frac{D+2}{(D+2)(D-2)}$
	2 -5 (D+2) Sinx.

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= (D+2) sin1
 = (0) x + dsin x
Nlow,
7 = (f1+7]
 = e2 (A(0)2x+Bsin 2x) \$5 royd sol".
ETA VIII.
5- 7- 1-178 - 181
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=>	Soln	
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	$\frac{dr}{dt} = \frac{20}{600} = 0.03$ $\frac{1}{20} = \frac{1}{20} =$	hur
	Care $\pi = 60$ $\frac{dr}{dt} = T$	
7 \$3	131 11 11 - 12 + 1 1 1 1 1	
	0.03 = 60 T	
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