$y' \cos x + y(1+y)\sin x = 0$ $y(x) = -\frac{e^{4}\cos(x)}{e^{4}\cos(x) - 1}$	1
W - 27 - 25 T	
cos(x) dy(x) + (y(x)+1) sin(x) y(x)=0	-
dx(x)-(y(x)+1)fan(x) y(x)	
dx	
dy(x) -tan(x)dx	
V(y(x)+1)y(x) dx = 1011(3120	
- log(y(x)+1)+ log(y(x))= log(cos(x))+C1	
	4
-e" cos(2)+1	-
y(x) = C1005(x)	
$(x^2+1)y'-(2x+1)y=0$	
x2y'(x)+y'(x)-2xy(x)=0	
y'(x)(x+1)-y(x)(2x+1)=0	
y'(x)+x2y'(x))-y(x)(2x+1)=0	-
y'(x)+x2y'(x)+(-y(x)-2xy(x))=0	
	$\frac{dy(x) - (y(x) + 1)tan(x) y(x)}{dx}$ $\frac{dy(x)}{dx} = \int_{-tan(x)dx} \int_$

ye dy + xey ds = 0. evixt x tex dy(x) y(x)=0 = y(x) dy(x) y(x) = -e x x (e 414 dy (x) y (x) dx = 5-e-x xdx -1 e 4(x)2 = -e x (-x-1)+C1 y(x)=- (Slog 1-2e xxxxx x+1)) (1+y2)sin xdx - (1+cosx)ydy=0 (y(x)= fc+5) (y(x)= fx) (cos(x)+1)y(x)=0 $\frac{dy(x)}{dx} = \frac{(-\cos(x) - 1)y(x) - (-\cos(x) - 1)}{(-\cos(x) - 1)} = \frac{dx}{(-\cos(x) - 1)}$ 2 dy (x) y (x) - 2 fan (x) y (x) - 2 fan (x) $\frac{dy(x)-2\tan(\frac{x}{2})x(x)=2\tan(\frac{x}{2})}{dx}$

cos (2) dv(x) - (2003 (2) sin (2) v(x) = 2 cos (2) sin (3) $\cos^4\left(\frac{x}{2}\right) \frac{dv(x)}{dx} + \frac{d}{dx} \left(\cos^4\left(\frac{x}{2}\right)v(x) - 2\cos^2\left(\frac{x}{2}\right)\sin\left(\frac{x}{2}\right)\right)$ $\frac{d}{dx}\left(\cos^2\left(\frac{x}{2}\right)v(x)\right)=2\cos^2\left(\frac{x}{2}\right)\sin\left(\frac{x}{2}\right)$ (d) (cos (x) v(x))dx = (2 ws (x) sin(x)dx COS" () U(x) = - COS" () + C1 v(1) = (1 sec (2)-1 3(x) = - (1 sec (2)-1 3749090 y'=(x+y-1)2 y'=y(x)+(-2+2x)y(x)+1-2x+x2 $y'(x) = y(x^{2} + (-2 + 2 \times)y(x) + 1 - 2 \times + x^{2})$ $y'(x) = (x + y - 1)^{2}$ $y'(x) = (x + y - 1)^{2}$ $y(x) = (x + y - 1)^{2}$ (x - 1) + y(x)y(x) + (y(x))(x - 1) + (y(x))(y(x)) $(x - 1)^{2} + ((x - 1) \cdot y(x)) + (y(x)^{2}(x - 1)) + y(x)^{2}$ $y(x) = ((x - 1)^{2} + 2y(x)(x - 1) + y(x)^{2})$ 79 (1) = (x2-2x+1)+29 (x) (x-1)+y(x2) 29(x) (x-1)=269(x)-29(x) 4 (x)=1-2x+x2+(2x9(x)-2y(x)+y(x)2

y = cos (x-y+1)			
4/XI = -2007 -1 (1/2 CO1+	2×+2))+×	+1	
14 (x) = cos(x)-3(x)+1)			
A CONTRACTOR OF THE CONTRACTOR			
<u>=dv(8)</u> +1=605(v(8)+1)			
dy (x) = - cos(u(x)+1)-	1		
dulxi dx - a			
- 03(V(A)+1)+1 = 1			
$\int_{-0.5}^{0.5} \frac{dx}{dx} dx = \int_{-0.5}^{0.5} 1dx$			
-cot (2 (v(x)+1)) = x+ c1			
V(x) = -2 cot -1(x+C1)-1			
* (x)=x+20x 1(x+0))+1		
Manual M.			

1330		90
87	(y-3x+2)dx+(3x-y-1)dy=0	1
	y(x)=3(w(-e-4x+0x-1)+1)+3x=1	}
	-3x + dy(x) (3x-y(x)-1)+ y(x)+2=0	
	(dv(x) +3) (-v(x)-1)+v(x)+2=0	
	- (dv M +3) (v (x)+1)+v(x)+2=0	-
	$\frac{dv(x) = -2v(x)-1}{dx}$	
	cv(x) (v(A+1) =1 -2 v(x)-1	430
	(dv (x (x (x) +1)) dx = f1 dx	70)
	1-(-log(2v(x)+1)-2v(x)-1)=x+c1	1
	v(x)= \(\left(w(e^4(x+4)/-1) \)	-
	y(x)=2 (6x+W(====================================	
2)	(2y-x+1)dx+(4y-2x+6)dy=0 M(x,y)=2y-x+1 N(x,y)=4y-2x+6	
	P(x) = 2 1 - 2	
	Q(y)= = -2	

 $1 = e^{(2dx)} = e^{2x}$ e2x. (2y-x+1)dx+e2x. (4y-2x+6)dy=0 dF=9+ dx + 9+ dy=0 # = e3x (2y-8+1) F= Se2x (24-8+1)dz 2 e2x (4y-2x+6) F = Je28 (4y - 2y + 6) dy 1300 xy = y(1+ In 2) xy=y+yln(*) y=美+景ln(景) V= # Y=UX Y'=V+XV' $\begin{array}{c}
v + xv' = v + v \ln(v) \\
xv' = v \ln(v) \\
dv = dx \\
v \ln(v) & \\
\int \frac{1}{\ln(v)} dv = \int \frac{1}{x} dx
\end{array}$ li(v) = In [In(v)] + C1

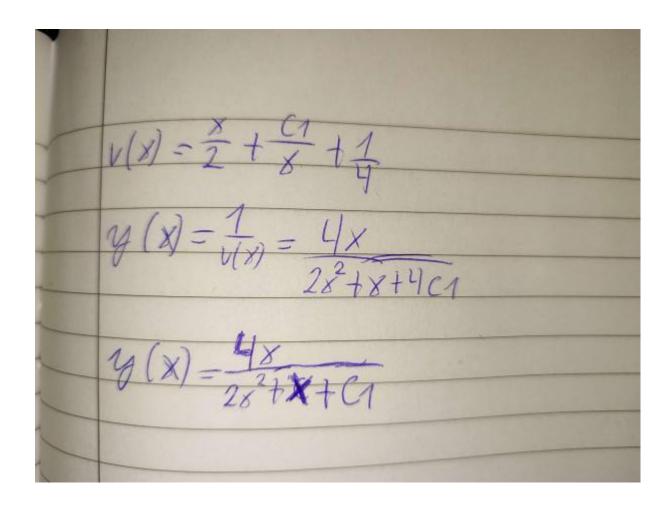
	3 In(v) eminte	D
	1 v=e x	
	V=\$ \frac{1}{2} = e^c x	
	xy=y(1+ln(2))	
5)	$x(n'x + n) = \frac{x^2 + n^2}{x + n}$ $n = \frac{n}{x}$	
	11'x2+11. x = x2+11/x2 x(1+11) 11'x2+11. x = x(1+11) x(1+11) x(1+11) x(1+11)	
	du - dx	
	$ \begin{cases} \frac{1}{1+u} du = \int_{X}^{1} du \\ \ln 1+u = \ln x + C \end{cases} = e^{c} x - 1 $ $ \frac{1+u}{1+u} = e^{c} x \\ \frac{1+u}{1+u} = e^{c} x \\ \frac{1+u}{1+u} = e^{c} x - 1 $ $ \frac{1+u}{1+u} = e^{c} x - 1 $	

	e gill
$xydx = (x^2 - y^2)dy$	10
dx = x-y2	
dx - xy - y2 by	
dx = x - y u = x dx = y du + u	
$\frac{dy}{dx} = \frac{1}{dy} = \frac{1}{y} = \frac{1}{x}$	
$\frac{dy}{dx} = \frac{1}{2x} = \frac{1}{x^2 - 2}$	
Ay = 1 - 1 - 1 - 11 - 12 - 12 - 12 - 12 -	
Juli-Dan-dx Fdx	
1 12 - x + C	
(x/4) - (x/4) = x+C	
	(Aug (a))

53090120	KH B M H	1
(0)		-
	V+ x dx - x + 2 (vx) 2x + (vx)	
	THE WAY WAY STANDED	
	$v(2+v)+x(2+v)\frac{dv}{dx} = x+2v$ $2v+v^2+2x\frac{dv}{dy}+xv\frac{dv}{dy} = x+2v$	
	$V^{2}+2x\frac{dy}{dy}+xv\frac{dy}{dy}-v = x$ $V^{2}+(2y+x^{2})\frac{dy}{dy}-v = x$	
	$V^{2}-V=X-(2x+2i)\frac{dV}{dx}$ $V(V-1)=X(1-2+X)\frac{dV}{dy}$	6,090
	V dv = X	
	JAN = JANX	

V	(y-x) y = x + y (y-x) = x + y
*	(y-X) dy = X+y dy - X+y vx y+x
*	My = x + y u = y dy = u + x dx
T	$\frac{u}{x} + x \frac{du}{dx} = \frac{1}{1-u} + u$
	$\frac{u}{7u} = \frac{1}{2} \frac{dx}{du}$ $\frac{dy}{dx} = \frac{dx}{dx}$
514	du - dx 1-21-11 x
**	2 x ³ y' = 2x ² y - 3 y' = 2x ² y - 3 2x
1	$y' = \frac{2^{1}y}{x} - \frac{3}{2x^{3}}$ $y' = \frac{2^{1}y}{x} - \frac{3}{2x^{3}}$ $y' = \frac{2^{1}y}{x} - \frac{3}{2x^{3}}$
4	gry= (24-3)dx

100		
5		
	17 dy = 2 17 dx - 3 13 dx	
	In 141 = 2 In 1x1 + 3 + C	
	In 141 = In 1x1+22 + C	
	In 121 = In 1x2 1+ In (e3) + C	
	Inty = Intx2 + In (e3)+C Inty = In (x e3)+C y = + x e3 e 2x y = 2x y - 3	
	7x4 = 1x 600 C	
73090	2 4xy + (4x+1)y2-4y=0	
	4x dy (x) - 4y (x) = (-4x-1) y (x)?	
	- 4 4 (X) = (-4x-1) 4 (x) 2 - 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	$\frac{y(x)}{y(x)} = \frac{1}{\sqrt{x}} + 1$ $\frac{y(x)}{\sqrt{x}} = \frac{1}{\sqrt{x}} + 1$ $\frac{y(x)}{\sqrt{x}} = \frac{1}{\sqrt{x}} + 1$	
-	x dv(x) + v(x) = -x (-1/4-1)	
	X (1) + (1) (1) (1) = - x / 1	1
	(xv(x) = x (-1)	1
	J# (x v(x)) dx - J - x (4x - 1) dx xN(x) - x + x + c4	
	2 1 4 1 61	1



1309000 (1-3x-4)dx-[x-3y2]dy 00 3 (2+4-27x3+27x) -108x3+274-27x(x-1) y(x) = (1+1/3/x 23/3 \$ [[274-27x3 +2712-108x3+2741-27x (2-1) (1-153) 11(274-27x3+27x)2-108x+274-27x18 -32-4(x)+1=(x-34(x)2) dylx) 1-3x2-y(x)+(-x+3y(x)2) dy(x)-0 $P(x,y) = -3x^2 - y + 1$ $Q(x,y) = -x + 3y^2$ F(x,y)= 5(-3x2-y+1)dx=x-3-yx+g(y) 95(x, y) = 8 (x-12-4x+ 9(x)) = -x+ 09(y)

94 - 97 (x-12-4x+ 9(x)) = -x+ 09(y)

95(x,y) = 8(xy) dy daly) dg(y) - 3 42 gry = 53 y dy = y3 -x3+x+y3-yx=C1 f(x,y)=-x3+x+y3-xx

2950000	
a)	$2xy dx = (x^2 - 2y^3) dy$
	y(x)=3(2,0)
	3/3 J4C+27x4+9x2 32 3/3
	2 (x) = (1-1/3) 1/3 1/4 C1+2+2+4+9x2 (1+1/3) C4 23/2 32/3 ENG 5/2424-9x2
	2/2 3 ²¹³ 2/2 3 ²¹³ 2/3 J46+122 192 2/2 3 ²¹³
	2x y(x)=(x-2y(x)) dx=0
	≥ R(x,y)=2xy S(x,y)=-x2+2y3
0	2y MA(4) R(X, VI) = HANDYELLAND - 2 M(4)X
	9p (4)
	100 (u(y)) = -2 100 (y) u(y) = \frac{1}{2} Q(x, y) = 2y - \frac{2}{3}
	2x + (2y(x)-x2)dy(x)-0
	9 f(x,y) = fy dx = xy + 9(4)
	9 + (x,y) = 9 (x + 9/4) = -x + dg/4)
	dy -9917 , 14

+ dg (y) = 2 y 9(y) = 52 y dy = y2 f(x,y)=y2+x f(x,y)=c1 y2+x2=c1

$ \frac{33}{33} \frac{33}{330000} \frac{3}{3} = \ln \frac{y}{y} $ $ \frac{y'(y'-1) \ln (y'+1)}{y'(y'-1)} \frac{(y'-1)}{(y'-1)} $ $ \frac{z-y'}{2} \frac{y''-1}{2} = \frac{1}{2} \ln \frac{y'-1}{2} $ $ \frac{z-y'}{2} \frac{y''-1}{2} = \frac{1}{2} \ln \frac{y'-1}{2} $ $ \frac{z-y'}{2} = \frac{1}{2} \ln \frac{y'-1}{2} = \frac{1}{2} \ln \frac{y'-1}{2} + \frac{1}{2} \ln \frac{y'-1}{2} + \frac{1}{2} \ln \frac{y'-1}{2} = \frac{1}{2} \ln \frac{y'-1}{2} + \frac{1}{2} \ln $	50
$\frac{dw-2(\pi)-y}{dz}$	

	11/1
NEC MEDIE Z W	ar
1 = 0	
Z(z-1)=z.w In (z-1) z(z-v=z.c.ln (z-1) Z(z-1)=czln (z-1)	-
dy = xd's n = x v = y' dx dx	
$y = xy' - e^{y'} y' = \frac{dy}{dx}$ $y = x \frac{dy}{dx} - e^{\frac{dy}{dx}}$	
1 d8	
y=xy'- xy y'= (y+xy-)	
T X X	