ASSIGNMENT # OL

8000

dy + y = xy2

$$\frac{O(x)=x}{y^{1-x}=1}\int (1-x) dx \circ IF dx + C$$

 $IF = e^{\int -1/\chi} dx = e^{-t n \chi} = \frac{1}{2}$

 $y'' = x \left[-1(x) \frac{1}{x} dx \right] + c$ $x \left[-1 dx \right] + c$

1/y = -x2+C

y = / -27c

	Date
11 /2 2 1 2	
11) (x +y2) dx + (ny) dy =0	
$dy = -(x^2 + y^2)$	
du will	The same of the same
horses	
y = 1 %	THE PERSON NAMED IN
1 - V D	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
$dy = \chi dv + \sqrt{d\chi}$	
02	
dy + V+xdV	
de dn	
(22 + 2212) dx + 22 v (2dv -	L Vda = D
(x2+x212)dx + x3/dV + x	(3 ×2 An - 0
12+ 2x 17 2x + x3 vdm =	000-0
2(2	
(1+22) ax + nvdV = 3	
1 1 7 7	
1	
dN = d	u
d	X - =
/ V du . da	
J 2 BLV	N. Comment
$\frac{1}{4} \int \frac{du}{u} = \frac{1}{4} u$	low + c
14) u /w	
= 1/ ln (1+ 2v)	+ (
iw	
Ln2 + /u (n) 1+21	2 1
low + lol 1+2v2)/4	0_ (
1024+101112	
10 4 11 W	1 = C4.

Date_ x4 (1+242) = C4. =) V= 1/21; 1+2 (yr) = C. x4/1+247 = C x4+2y2xx=C. 2xy 1 + x4= c. dm Notexact (2-y) dx + (-2/2) Any dy =0 J-21/2 = e-1012 = drx = x-2 = 1/4 x-y2 dn + /22 (2my)dy =0 1/2 - 4/2) dx + ny dy =0. = xact - yr dx + (0)dy = 0

Date_____

lox = gr (1/2) dx. 1/2) + 6 = 4 V) $e^{1/dy} - 1 = e^{x}$ e9 dy - e1 = et let ey = t ey dy = det dt - t = e7 dx D.F. Say $= e^{-x}.$ $t(e^{-x}) = \int e^{x}e^{-x} dx$ $e^{x} = x + c$ 11) Siny dy = Cosno (acosy -Sinx) N=-2 Cosy Cosy + Cosx 8nx. dN = - cosy (-28 max) + Cosx(Cosm)

day

+ 3 max (-8 max)

Not exact. Mly) = Gsy $r(x) = 2 \sin x \cos y + \cos^{2} x - \sin^{2} x$ $\cos y - 2 \sin x \cos y - \cos^{2} x + \sin^{2} x$ $-2 \cos x \cos y + \cos x \sin x$

 $M = 3x^{2} + 2ny^{2}$ $M = 2y + 2x^{2}y$ dN = 0 + 2x(2y) dN = 0 + 2(2x)y dN = 4ny dN = 4ny dyexact 3x2 + 2ny2 dn + 2ydy = 0 $3x^{3} + y^{2}2x^{2} + 2y^{2} = 0$ $3 + 2^{2}y^{2} + y^{2} = 0$ $e^{-y} \sec^{2}y \, dy = du + u dy$ $e^{-y} \sec^{2}y = du + x dy$ $e^{-y} \sec^{2}y = du + x$ $\sec^{2}y = e^{y} du + x$ $\sec^{2}y = e^{y} du + e^{y}x$ $\sec^{2}y = d (e^{y}u)$ $\sec^{2}y = -tory + c$

- 7/2 let = V + xdV dx V + xdv dx 21dv = 1+12-V Ju V--1 2 dv = V+1 VEZ OW V+1 dx V-1 dv = VH V+1-2 dV= dy 1-2 av = fidy V+1 V = -2 ln (v+1) = lnx + c. 9/2 -2 ln (8/2 +1) = lnx +C.

dy = en /1+x/ + c 2-04 2-e7=t. at = - er dy - dt = et dy - dt = tr/f/ -ln (2-ey) = ln(x4)+c. $\frac{\chi^2}{dx}\frac{dy}{dx} + y(xty) = 0.$ $y = \sqrt{x}$ dy = x + x dxVtxdv = - Welxer) V+x dv = -V-V2 $\frac{2dV}{dV} = 2V - V^2$ $\frac{dV}{dV} + \frac{dW}{dR} = 0$ $\frac{V(2+V)}{\sqrt{2}} = 0$

Date. 1/x x2 = e. y - x2 = c. y + 2x = Cx 2y. xiii) (Secretaria + tary -et) du + sex seenyly=0 Secx-lox tory ox + Secx secry dy = exdu & (Secr try) - try secrom dx + secx secryty (& (sect try) = sexdx Secretary = extc. tay = extc y = +00-1 (exec) $a\cos x \, dy + y [x sime + Gsw] = 1$ dy + y (25m2 + Cocx) = 1 dy + (resme + losse) y

dy + from + /2/y = x Cosx. P(x) = tome + 1 = tome + 1/x = tome + tom
= tomeseex + tom
= tomeseex + toweseex + toweseex + toweseex + toweseex + towesex + toweseex + toweseex + toweseex + towesex + towe= 2 secz Yx secx = Secx · K (x seen. nyserx = feerx da rysecx = torne + c y = torne + c useen XV) xlnx dy + y = 2lnx dy + 1/ (y) = 2 bree
de silve y = 2 bree 2x (xenx) 9 = 3/2. IF: = e Styline de = e Saty = e Int = t ylox=c+ flox. 2, dx. Int = u

$$ylnx = C + \int 2udu$$

$$ylnx = C + u^{2}$$

$$ylnx = C + (lnx)^{2}$$

$$y = C + (lnx)^{2}$$

$$y = C + (lnx)^{2}$$

$$0(n) = n^{2}$$

$$n = 2$$

$$e^{\int -4/n} = e^{-4lnx} = e^{lnxt} = x^{4}$$

$$=\frac{1}{24}\left[-\frac{1}{8}\right]+C$$

D#2

(1)

Intial = lo
in 5 years = 2lo
time for 8lo = >

tim for UP = ?

P(t) = Po ext P = Po eto) P = Po

In2 = 5K.

R = ln2

K = 0.13862 U.

pr3=0.138658F

= 7.92

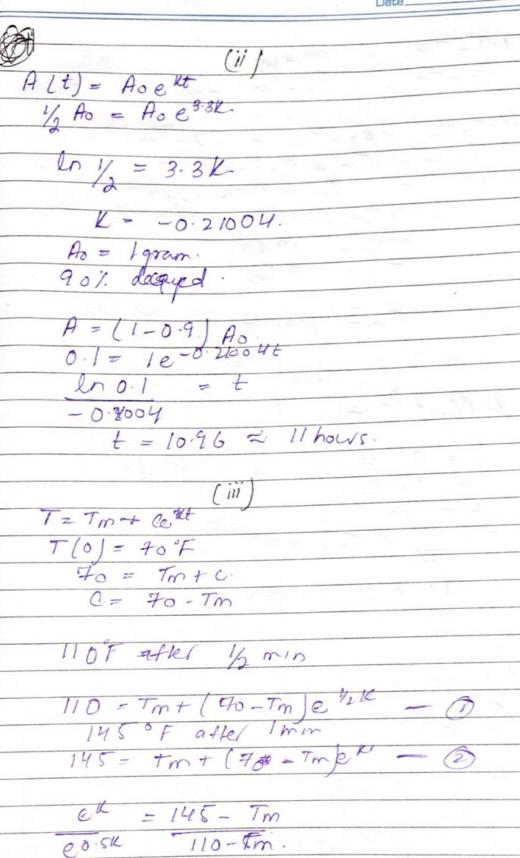
for quadrage

4Po=Poe-6.1356216

64 = t

0 .13[41

t = 10



lim (d)= 3/5