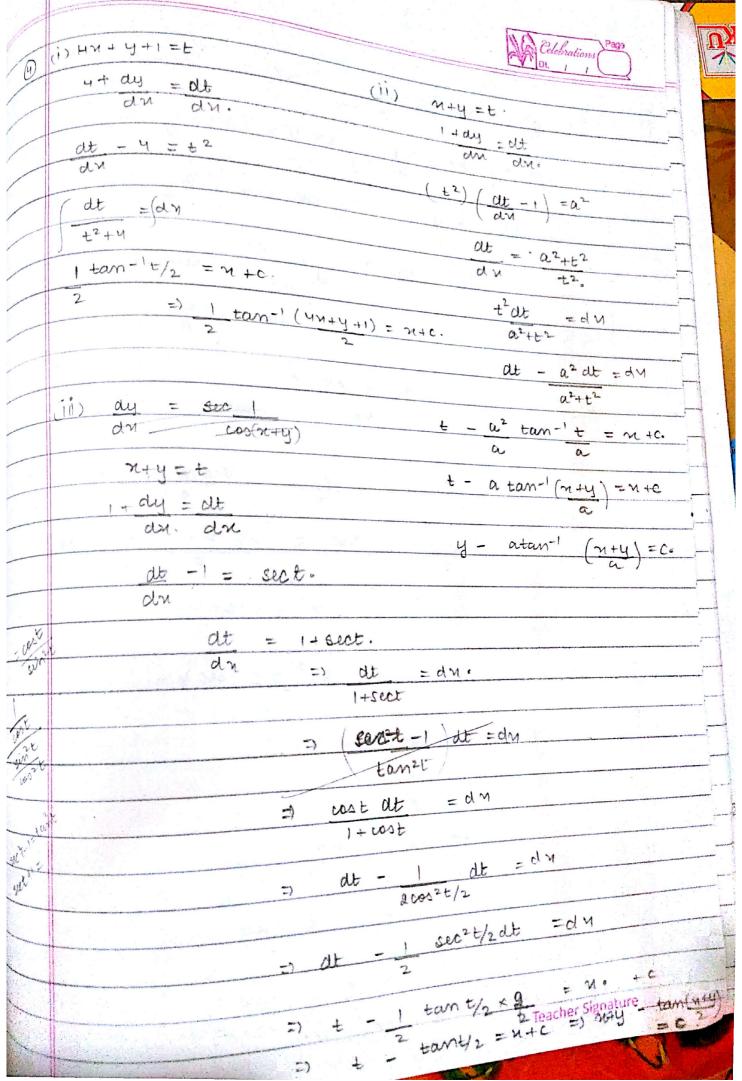
And the second s	
	Assignment 5.
(1) (i)	y" + n'y' = siny Jy com.
	$(y'' + n^2y')^2 = ain^2y(y) cos^2x$
And in the second secon	Order = 2
and the second second second second second	Degree = 2
(ii)	$(y')^{3/2} = 2\pi (ee^{-\pi x^2} - y - 2\pi)^{\frac{1}{2}}$
	$(y')^{3} = [2n(ye^{-x^{2}}-y-9n)]^{2}$
	Drdu=1
	Degree-3.
(iii)	· y'' + 2ny'-1 n2 = Jycos M
	Drdu = 3
h	Degre = 2.
. 6	
	(i), (iv) *
	(i) $dy = e^{2x+3y} = e^{2x} e^{3y}$
(3)	(1) dy = e
	ay = e ay
) e34
	Se-3y dy = Se2ndy
	$= e^{-1}y = e^{2x} + c.$
	(ii) $dy = e^{\gamma} \cdot e^{\gamma} + n^2 e^{\gamma^2} \cdot e^{\gamma}$
	dv [e-4 dy = [ex + 322 ex2])dx
2 7 7 7 7	-e-y = em + etc3 + c.
The state of the s	
See a se	
Mr	##하는 19 이 그는 사람이 되었는데 되었는데 되었는데, 이 사람들이 가득하는데 그를 가장하는데 되었다. 그런 사람들이 가득하는데 그는 그를 모양하는데 하는데 그를 모양하는데 그를



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```
in day-non = a singly ( non -non)
        dy + y dn = 1 4 tamy/y (dy - y dn).
         (dy tomy/x) (dy -y)
               Put y/y=v=) y=nv
dy/dx=v+ndu/du.
                dr dr
                      24 = x vtorn
                           du (1-vtanu) = -20.
                              2dy = (Vtanx -1) dy
                            elogn = log |secv| - 1 logv + log c
                                n= c | suc V
                               4x2 = c | sec 4/21
    \frac{1}{dM} = \frac{y}{x} \left( \frac{\log y}{x} + 1 \right)
                  4/x = V
                  \frac{dy}{dx} = v + v dv
                     y's ndv = v logv + x
      \frac{dy}{dy} = \frac{dy}{y \log y}
\frac{\log x}{\log \log y} + \log c
Teacher Signature.
```

 $m = c \log(4/n)$

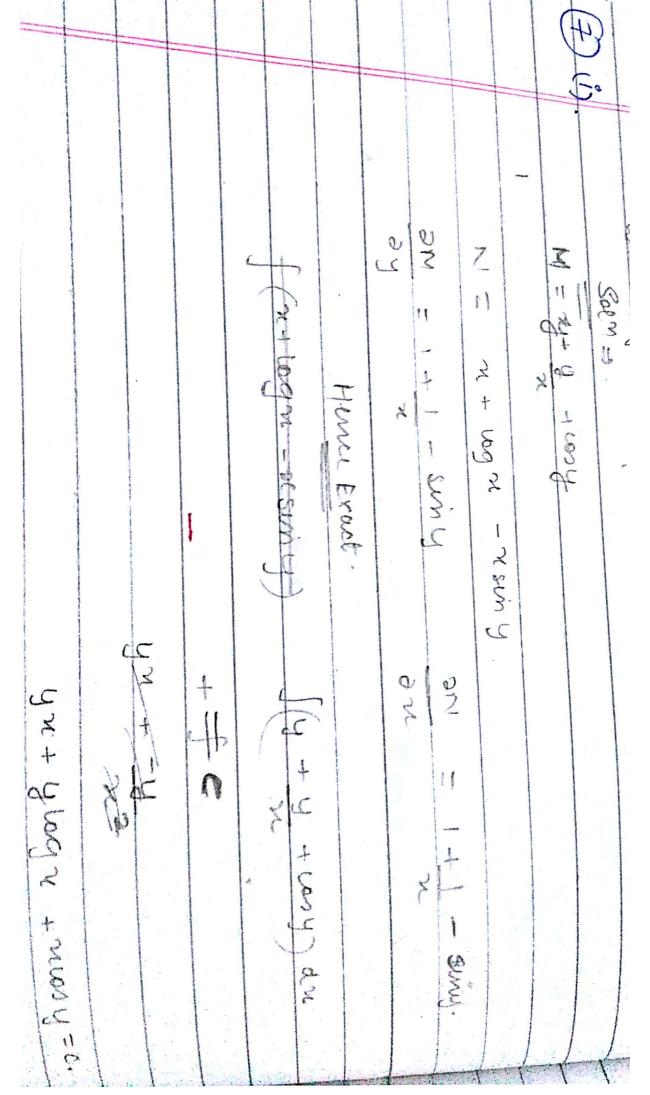


```
( A 42 + Ac4) dx + (2 NE4+34) dy = 0
3.4
                                       am = Aey an = 2ey
                                \int (3u^{2} + 2e^{y}) dx + \int 3y^{2} dy = C.
Rough
2u^{2} + 2ue^{y} + y^{3} = C.
Rough
du
du
                (i) M = yn + y^2

N = x + 2y - 1

N = x + 
3.>
                                                                                                                                            3N/2 = an +2y -1
                        I.F. = C
                                                                                 g(x)=1(2M-9N)=1.
                                                               = e san = en /ez
                  (ii) (xy + y^2 + y) dx + (x^2 + 3xy + 2x) dy

= x + 2y + 1
                                                                                                          3N = 3x+14 +2.
                                                                                                                                       \frac{1}{M} \left( \frac{\partial N}{\partial x} - \frac{\partial M}{\partial y} \right) = \frac{1}{A} \left( \frac{\lambda + \lambda + 1}{\lambda + 1} \right)
                                                                                                                                                                                       J.F. = c 5 4 44 8.
```



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