Assignment - 02

Mat 120 Sec: 10

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$$=) \ln w \cdot \frac{w_3}{2} - \frac{1}{2} \cdot \frac{w_3}{2} - \frac{1}{2} \cdot \frac{w_3}{2}$$

$$= \frac{n^3 \ln n}{3} - \frac{n^3}{9}$$

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dw = an - sing =) dw = - siny ay

14/w/+C

give that,

$$=) \frac{dy}{dm} + \frac{(m+1)}{(m+1)} = \frac{(m+1)}{(m+1)}$$

$$\left(m+i\right)\frac{dy}{dm}+y=\ln m$$

4(1)=10 5 m=1 5 4=10

(i)=7

10 (1+1) = 1 ln.1 -1 +c

=) 20+1 = lh1+c

=) 24 =00+c=c

-: (D=) [y(n+1) = n/nn-n+21]
.(n)

$$= \frac{3}{3} + \frac{3}{3} \left(\frac{3}{3} + \frac{3}{4} + \frac$$

shere is a Sunction
$$f(n,y)$$

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 $\frac{\partial f}{\partial n} = M(m,y) = 6my + 4y^2 + 1$
 $\frac{\partial f}{\partial y} = N(m,y) = 3m^2 + 8my$ — is

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Ans No: 9

$$= 1 \ln 3 = 5k$$

$$= 1 \ln 3$$

at,

$$t = 10^{3}$$

 $n(10) = n \cdot e^{\frac{1}{5} \cdot 10}$
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After, thous, it's mild be so time to time of the humber intous con;

$$4m + 128'' + 364' = 0$$

$$=) m = -(-6)$$

$$=) m = 0$$

$$=) m + 12m^{2} + 36m = 0$$

$$=) m^{2} + 12m + 36 = 0$$

$$=) m^{2} + 2 \cdot m \cdot 6 + 6^{2} = 0$$

$$=) m^{2} + 3 \cdot m \cdot 6 + 6^{2} = 0$$

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.. general B solution .

$$y = c_1 e^{0.m} + c_2 e^{-6m} + c_3 m e^{6m}$$

$$= c_1 + c_2 e^{6m} + c_3 m e^{6m}$$
And

=> The general own:

The numitrary equation for the associate homogeness
differential equation will be a

$$m^{2}-5m+6=0$$

$$=) m^{2}-2m = -9m+6=0$$

$$=) m(m-2)-3(m-2)=0$$

$$=) (m-2)(m-3)=0$$

$$y_{p}^{111} = A \left\{ 2 \left(m z e^{2m} + e^{2m} . 1 \right) + 2 e^{2m} \right\}$$

$$= 9 A m e^{2m} + 2 A e^{2m} + 2 e^{2m}$$

$$= 9 A e^{2m} (m+1)$$

Mors, protting all the value: