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> = h h , = de-Baglie wavelength:

 $mett = E - \mu \pi - \mu$

 \rightarrow Vesc = 2GM

-> Rs = 26M, Rs = schwarzchild radius/

 \rightarrow PV - R x T = KBT, KB = R = boltzman constant.

No. No.

-> Entropy 5 = KBIND . It = many multiplicity
= measure of disorder.

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	Mathematical Theory	• -
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1		

$$\Rightarrow d\alpha = f(\alpha)$$
, $\alpha = \alpha(t) \Rightarrow \alpha(t_0) = \alpha_0$

$$\rightarrow \alpha = \alpha_0 + \frac{d\alpha}{dt} (t-to) + \frac{1}{2!} \frac{d\alpha}{dt} (t-to)^2 + \dots$$

$$\alpha = \alpha_0 + f(\alpha_0)(t-t_0) + 1 (f(dt))(t-t_0)^2$$

$$+ 1 (f(dt)^2 + f^2 d^2f)(t-t_0)^3 + \dots$$

$$+ (f(dx)^2 + f^2 d^2f)(t-t_0)^3 + \dots$$

$$+ \int_{6} \left[f \left(\frac{df}{dx} \right)^{2} + f^{2} \frac{d^{2}f}{dx^{2}} \right] \left[(t-to)^{3} + \dots \right]$$

$$\frac{1}{2} \frac{dx = tax}{dx} = \frac{tat}{2}$$

$$\frac{d\alpha = + \alpha\alpha}{dt} \Rightarrow \alpha = \alpha = \alpha = 0$$

2
$$d\alpha = \alpha \cdot b\alpha \Rightarrow \alpha = \alpha \circ (1 - e^{-bt}) = \alpha \cdot (1 - e^{-bt})$$

				the state of the s	the state of the s
2	da a l		2=30(1-e-61)	±) y = a	(Leb)
	<u>ua = 4-62</u>	=>	2=Jo(1- E J	b	and the second second
1	dt				

Terminal value = 20 = arb

at tx 1/6, xx 0.6320

3.
$$dx = atbx = x = a(e^{bt} - z)$$

1.
$$\frac{dx = ax - bx^2 \Rightarrow x = K}{dt}$$
 $K = axb = satural C = xo$

K-30

$$\Rightarrow x = 30e^{at}$$

$$1 + 30(e^{at} - 1)$$

2.
$$dz - a - bz^2 \Rightarrow x = \sqrt{a + tanh} (\sqrt{ab} t)$$

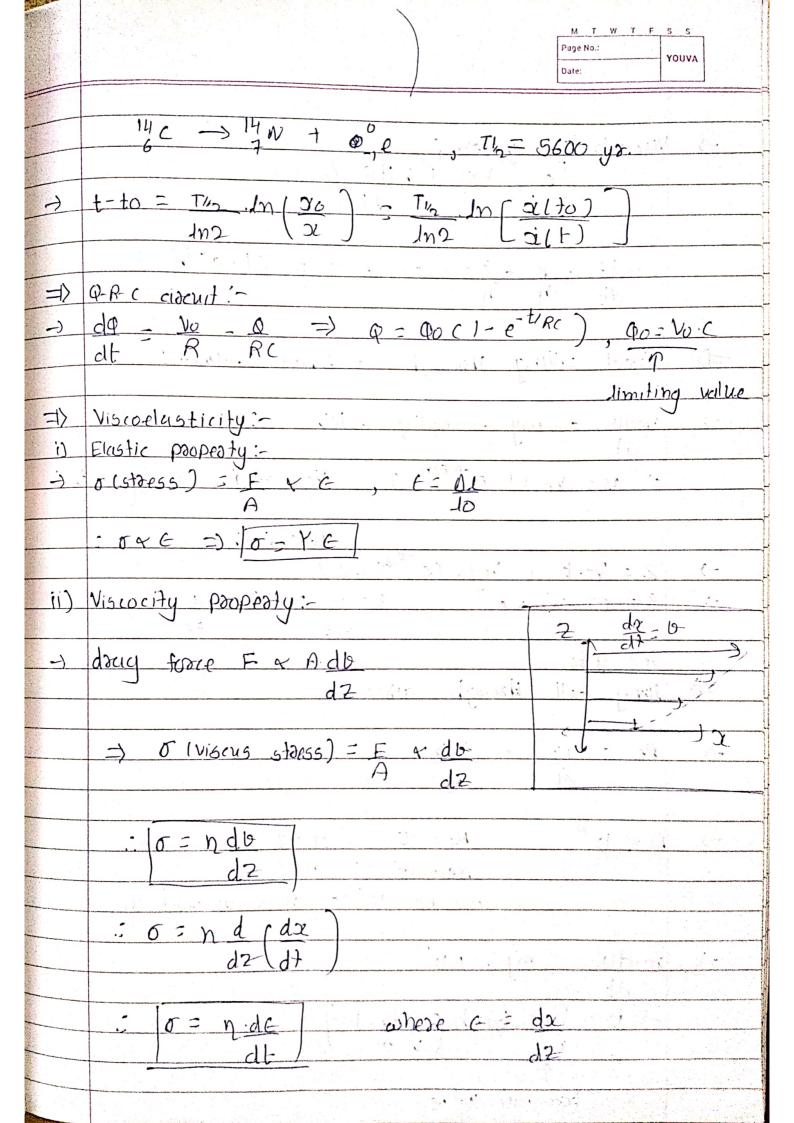
Saturation = x = ab

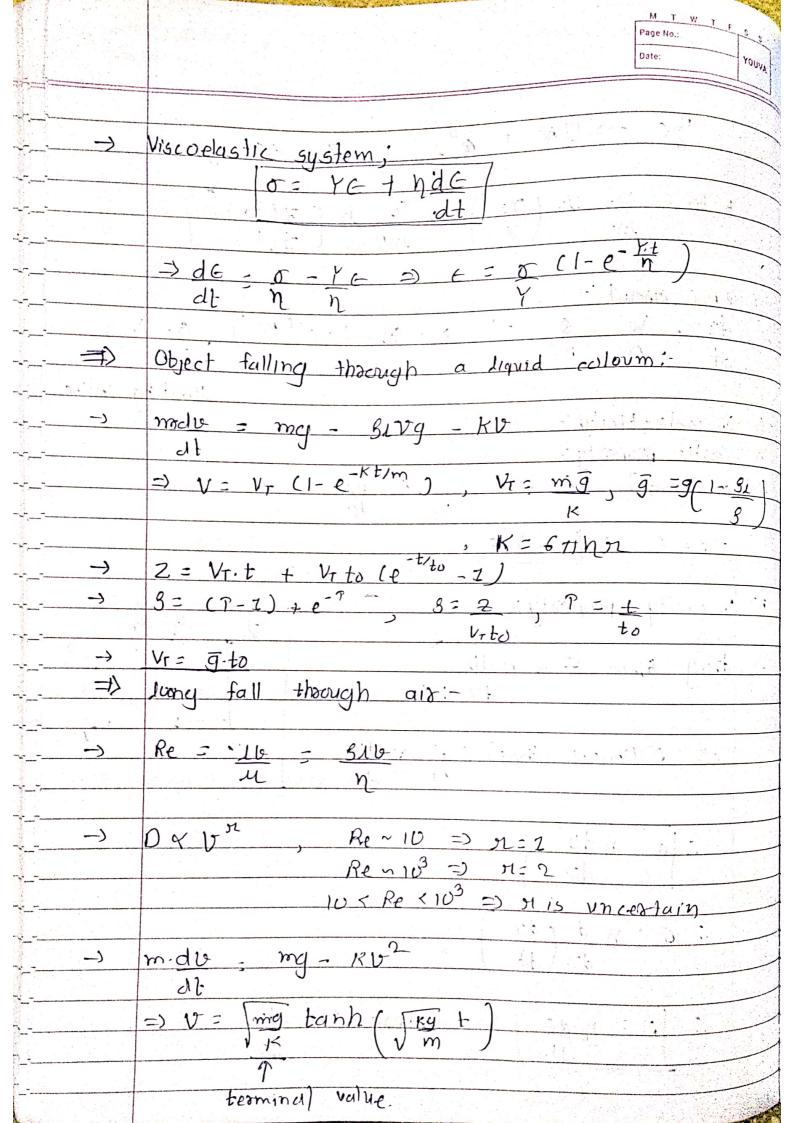
$$\frac{1}{2} dx = \frac{1}{2} x = \frac{1$$

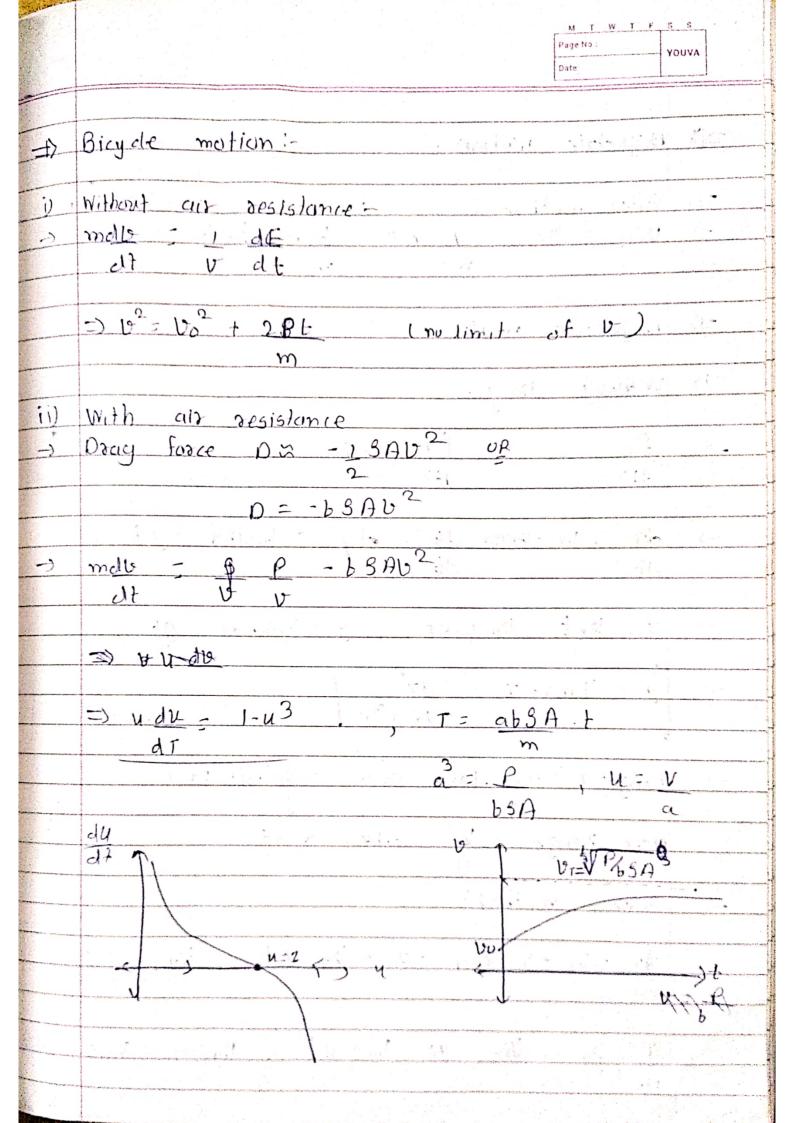
We must take such that 0 x "Dt x -2

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	[편집] 이번역 경기 발가되게 되게 되었습니다.	에 마이에게 되지 그런 얼룩들어야?
	생기 중에 가는데 가입다는 생각 통에 그 나쁜 것들이 하였.	MTWIFE
하다 연락하다 하나 하나 있다.		Page No. YOUVA
	[1] 그래 그는 그 그는 그를 가면 하지않는데 걸어야	Date:

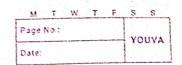
=	Numerical integration of non-outonomous equation:
->	dx = f(x, 1), $x(to) = xo$
	dt dt
-)	Taylor expansion:
	x = x0 + f(to, x0).(t-to) + 1 [2f + f2f](t-to]
	$2! \left[\partial t \right] \partial \chi \left[(t_0, \gamma_0) \right]$
and the same of th	
<u> </u>	Euler method:
And the second s	$\alpha_{n} = \alpha_n + f(t_n, \alpha_n) \cdot 0t$
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and the same of th	
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- Andrewson and the second	







Pagiactate motion: Eules method P Dt - 68 P 10,20+ Vitt = bit mbi Paujectile mution: Without drag i dr = 0, dr = de - Vx = boiost dy - oby = busing x = bxt = borust , y = Vusinat - gt2 $y = (tonr) x - gx^2$ $2 voros^2 r$ Rang= 2 = 2 Vo2. tant (054 = Vo2. sin(24) Max range = V_0^2 when $x = 45^\circ$. Euler's method: de = Vx => Rin = dit baje At. , Va, in = baje dy = by =) Yin = Yi + Vysi Dt , bysin = Vyri = gat



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11			

dang force =
$$D = -BV^2$$

 $Dx = -B\sqrt{V_x^2 + V_y^2} \cdot Vx$, $Dy = -B\sqrt{V_x^2 + V_y^2} \cdot Vy$

$$\frac{\partial}{\partial t} = -\frac{\partial}{\partial t} \frac{\partial^2}{\partial t^2} + \frac{\partial}{\partial t^2} \cdot \frac{\partial}{\partial t} + \frac{\partial}{\partial t} \frac{\partial}{\partial t} = \frac{\partial}{\partial t} \frac{\partial}{\partial t} + \frac{\partial}{\partial t} \frac{\partial}{\partial t} = \frac{\partial}{\partial t} \frac{\partial}{\partial t} + \frac{\partial}{\partial t} \frac{\partial}{\partial t} = \frac{\partial}{\partial t} \frac{\partial}{\partial t} + \frac{\partial}{\partial t} \frac{\partial}{\partial t} = \frac{\partial}{\partial t} \frac{\partial}{\partial t} + \frac{\partial}{\partial t} \frac{\partial}{\partial t} = \frac{\partial}{\partial t} \frac{\partial}{\partial t} + \frac{\partial}{\partial t} \frac{\partial}{\partial t} = \frac{\partial}{\partial t} \frac{\partial}{\partial t} + \frac{\partial}{\partial t} \frac{\partial}{\partial t} = \frac{\partial}{\partial t} \frac{\partial}{\partial t} + \frac{\partial}{\partial t} 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Vestical vasication of air density: => PV as 21 DP = -39.42 3 = Nm P = 3 KB.T -) DP = DS (KRT) S PO EXP -S. Por Bezmouli constant