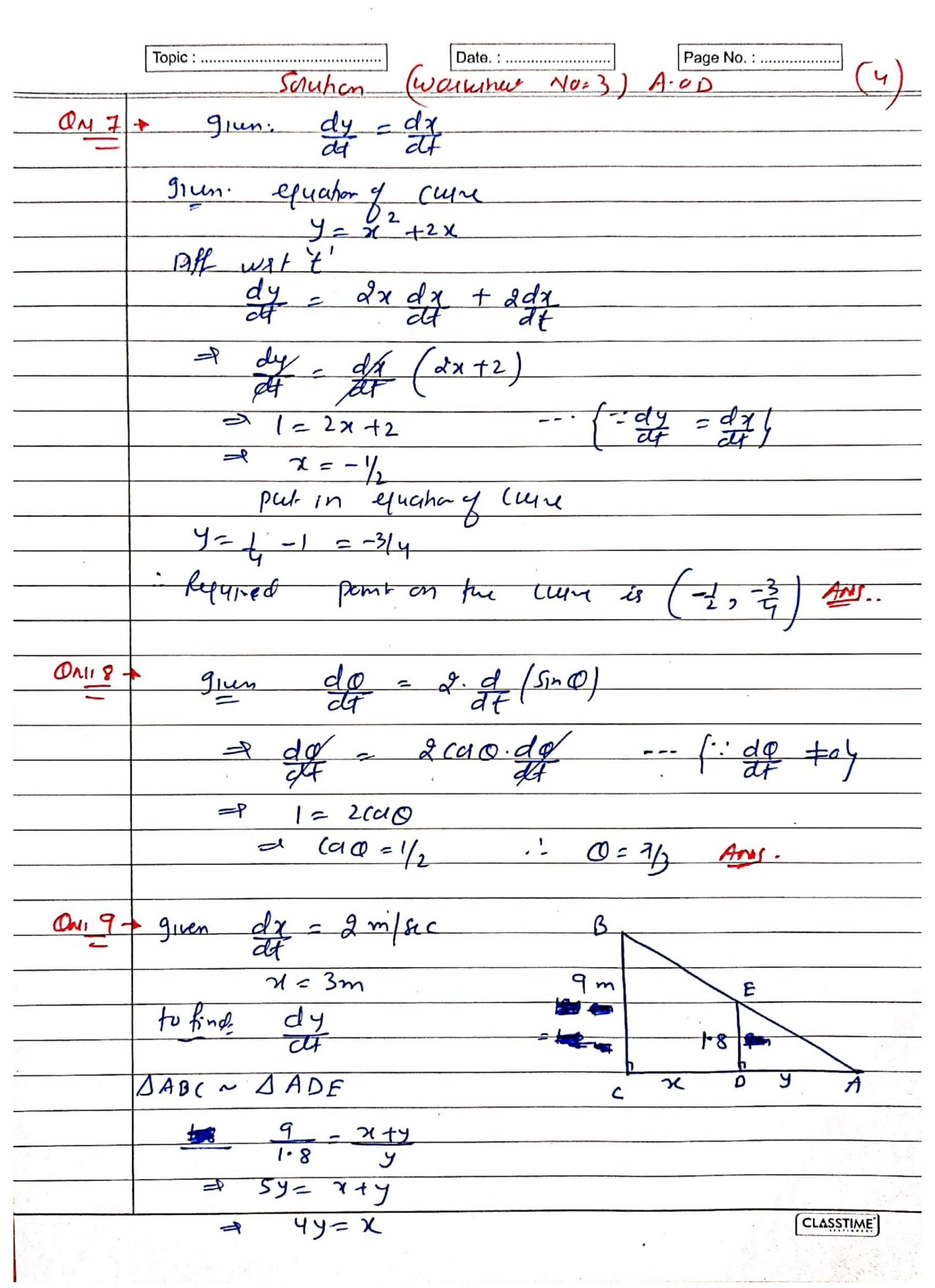
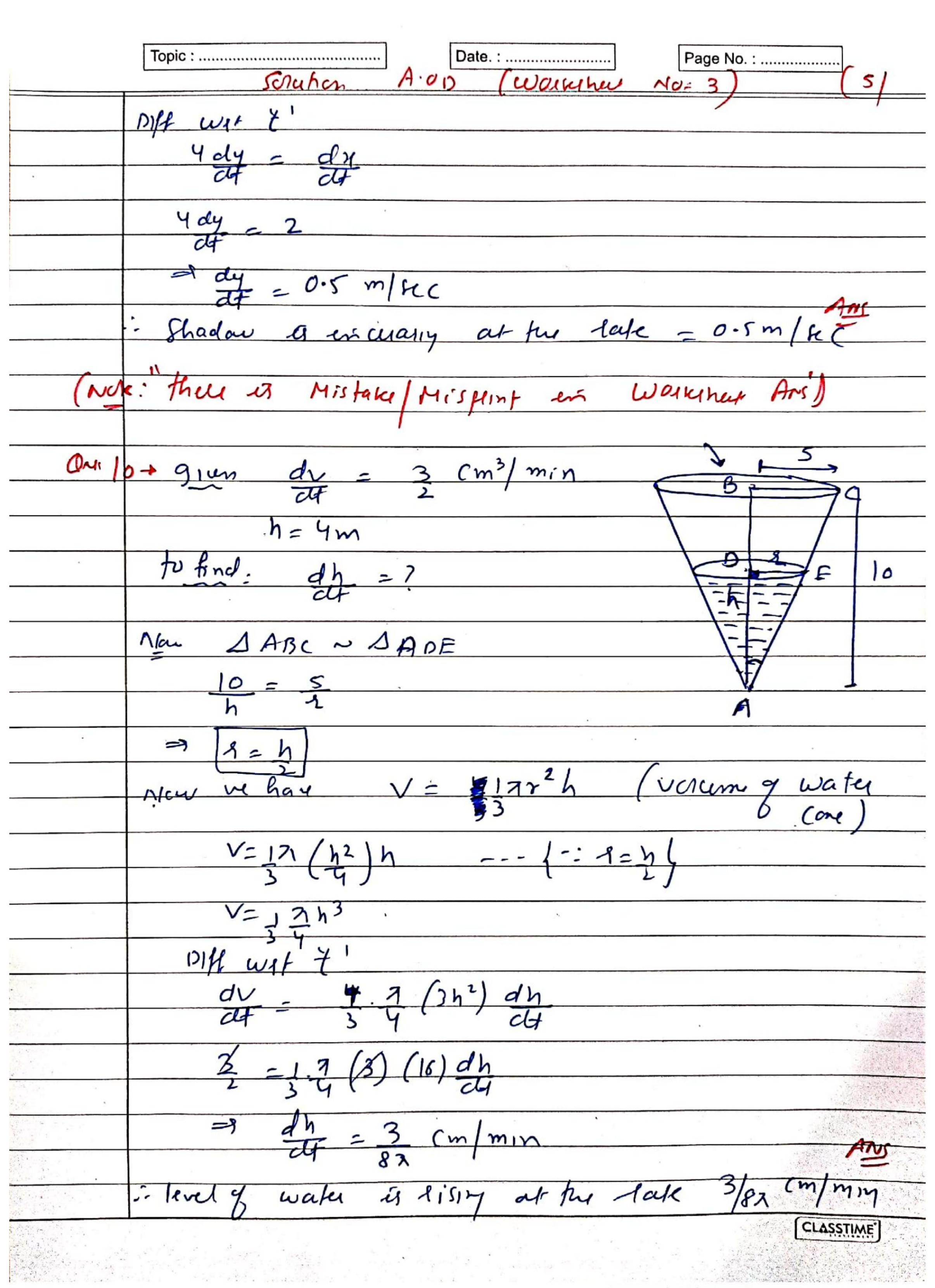
	॥ ज्ञा श्री राच्ये कुढ्ठा। ॥
	Date.:
	Solution of waskshur No: 3
	A.00
OMS	1 1 9 iven dv = 9 cm3/sc ; x = 10cm
	L. P.
	$\frac{70 \text{ find:}}{0} = 7$
	We have
	$V = \chi^3$
	Diff war t
	$\frac{dv-3n^2d\eta}{d\theta}$
	CG CG
	$\Rightarrow 9 = 3(100) dx$
	andy 3 Comba
	df 100 Cm/8cc
	Non S= 6×2
	DH WALT
	$\frac{ds}{dt} - \frac{12x dx}{dt}$
	ds = 12 × 10× 3 = 3.6 cm²/kc
	100
	S.A of lube is encuary at the lake 3.6 cm/sec Ans
ONIS 2	* giun: dx = -3cm/min x=10cm
_	$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = 1$
	$\frac{dy}{dt} = 2 cm/m cn \qquad \dot{y} = 6 cm$
· ·	
	P= 2x+2y 019/2 wyf + t'
	Diff wife 1
	$\frac{df}{dt} = \frac{2dx}{dt} + \frac{2dy}{dt}$
	$d\rho = 2(-3) + 2(2) = -2 cm/min$
-	Dumbu of luctures is decreased to part of
	Permeter of lectoryce is decuarry at he Rate 2cm/min
(ii)	$A = \chi \gamma$
("/	DIFF W.RF F
	CLASSTIME'

	Topic :
	Solution A.OD. (warmer) (2)
	$\frac{dA}{dt} = \frac{1}{2}\frac{dy}{dt} + \frac{1}{2}\frac{dx}{dt}$
	-(10)(2) + (2)(3)
	$\frac{-(10)(2)}{dA} + (6)(-3)$ $\frac{dA}{dA} = 2 cm^2 / m_{10}$
	$\frac{dA}{dF} = 2.Cm^2/min$
	And I wetergle is incuarry at the lake &cm'/min
	by an many at my name arming
OM 3	1 grun dr = 5 cm/RC; 1 = 8 cm
_	
	to find. dA = )
	whay, $A = 78^2$
	Diff-war't
	dA - 27 rdr d4 d4
	$\frac{dA}{dt} = 2\lambda(8)(5) = 40\lambda  \text{cm/src}$
	: Anay circular war is incuarry at the Rak Yorim/he
Ony 4-	91un dr = 1 cm/sec ; 8 = 1 cm
=	de 1 m/rec
	to find; dv = ?
	OG '
•	me hare v= 4 7/83
	OIH War ?' 3
	$dv = 42x^2.de$
	de de
	dv = 42 (1)2 (1) = 22 cm3/4e
	·· volume of an bubble of incuary of her lake
	27 (m/fic Ans
	CLASSTIME

	TOPIC:	No.:
ON1 5 -	9 ven: diametu= 3 (2x+1) = 1	
	- : sadus = 3 (2x+1) = 1	
	we have; V= 4783	
	3	
	$=\frac{4}{3}\sqrt{3}\left(\frac{3}{4}\left(\frac{2}{2}+1\right)\right)^{3}$	
	3 [ 4 ]	*
	$\Rightarrow V = \frac{4}{3} \times \frac{27}{64} \left(2x+1\right)^3$	
	3 64	
	$V = \frac{97}{10} (2x+1)^3$	
	Diff wat it	
	$\frac{dV}{dx} = \frac{93 \times 3(2 \times +1)^{2}}{(2)}$	
	16	
	dv = 272 (2x+1)2 Ams.	
	<i>8</i>	
DN. 6 +	given: $8 = 10 \text{ m}$ $dv = 314 \cdot \text{m}^3/\text{hr}$	
	dv = 314.m/hr	
	tofind dh = ?	
	<del>att</del>	
1	we have V= 782h	
	V= 2 (10)2 h	
	DIFL WAT Z'	ï
	dV - 1007 dh	
	clt . dt	
	314 = 100 (3.14) dh	
	$\frac{314 = 100 (3.14) dh}{314 = 314 dh}$	
	$\frac{dh}{dt} = 1  m/hr$	
	Donk of Wheat is Including at L. h. Dala	1 m/
•	depth of wheat is incuarry at the Rake	
		CLASSTIME"
		114119414





	Topic:	
OM: 11 -	9run: dv - K (constant)	
	Tipping ds oo 1	
	E ZT X	_
	we have v= x3	
	01/1, wit 7' dv - 3x2. dx	
	$\frac{dV}{dt} - \frac{3\chi^2}{dt}$	
	· CG	
	$k = 3x^2 dx$	
	$\Rightarrow$ $\sim$ $\sim$ $\sim$ $\sim$	
•	$\frac{dx}{dt} = \frac{x}{3x^2}$	
	Non S= 6x2	
-	m10 11116 71	
	$\frac{ds}{dt} = 12 \times dx$	
	df d4	
	$= 12 \times \left( \frac{K}{K} \right)$	
	1 3xL)	
	ds = 4k	
	36	
	ds as 1 fight es constantly	
	de	
	· ————————————————————————————————————	_
	CLASSTIME*	- 4