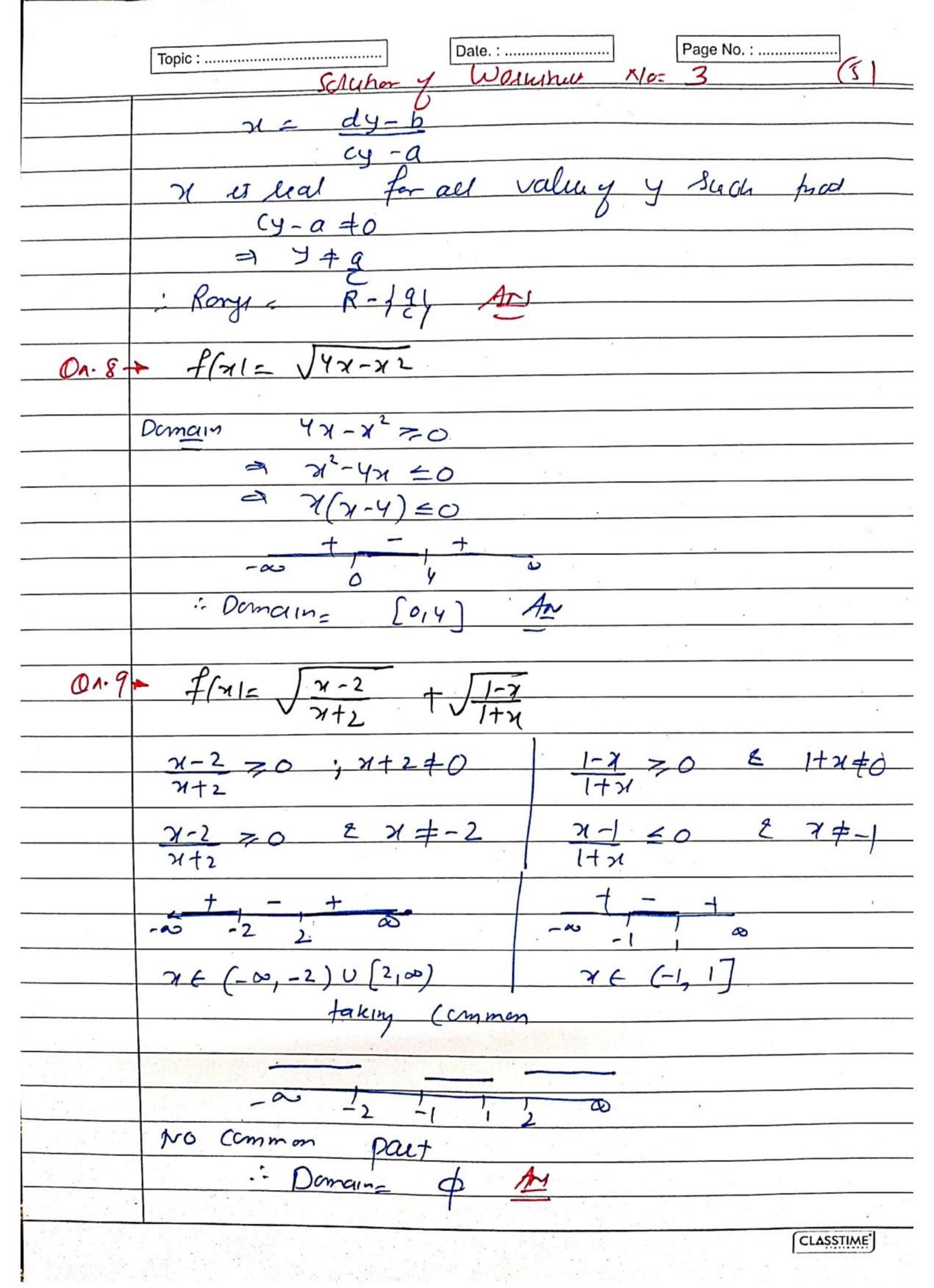
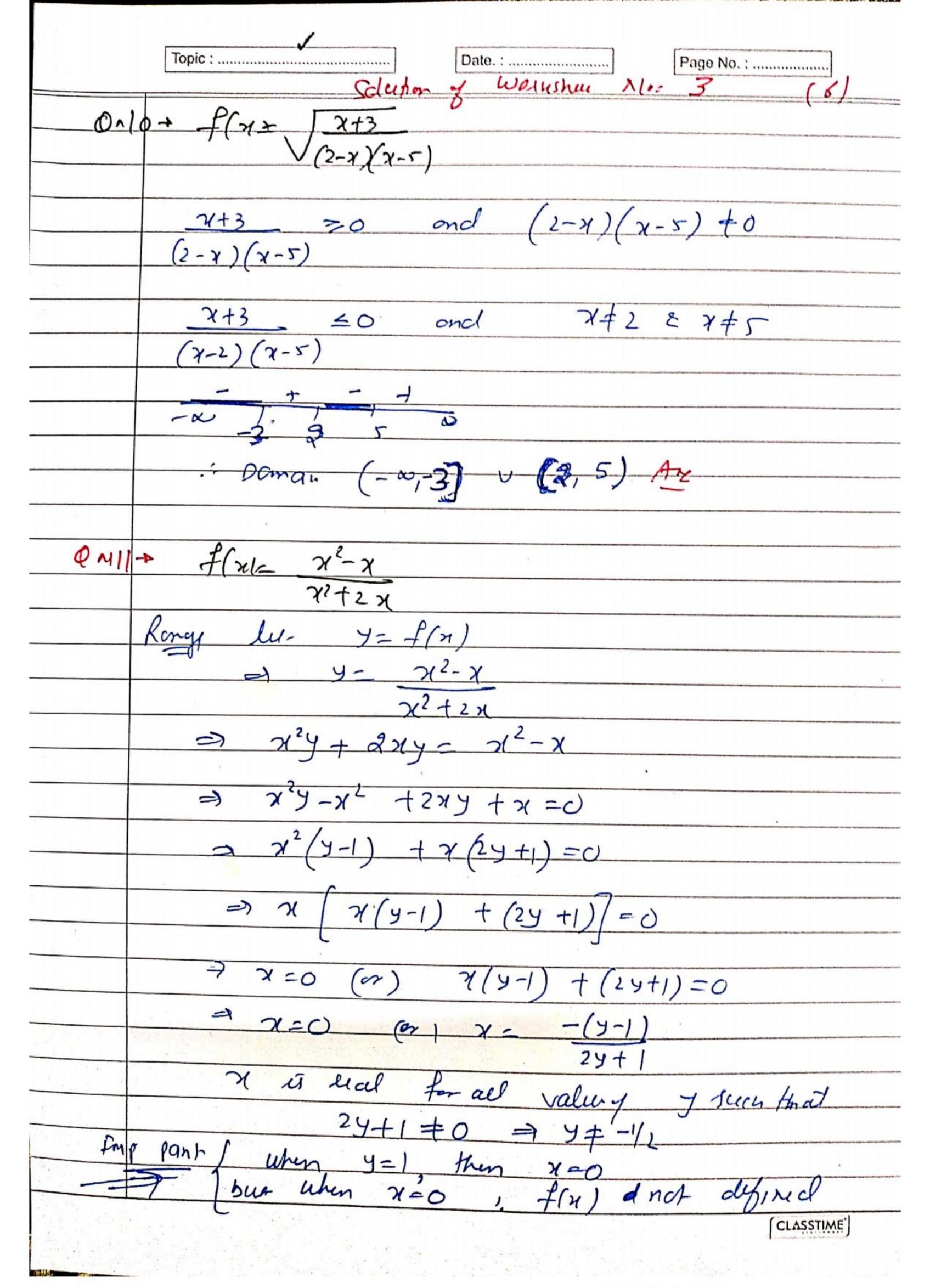
Topic:
Solution of wastesheet No: 3
$\frac{\partial n + f(x) = 1}{\sqrt{x-5}}$
Demain: 71-5 >0
$\Rightarrow \chi > 5$ $\Rightarrow 0 \iff \chi \in (5, \infty)$
Range Set $y = f(\pi)$ $\Rightarrow y = \int_{X-\Gamma} (1)$
7 7'- 1 7-5
$\frac{1}{2} \gamma - 5 = \frac{1}{2}$
=> n= f2 +5
92 1.3
$\frac{1}{y_2} = \frac{1+5y^2}{y_2}$
n is leal for all value of y Sulm trat y \in R - loy
but from e(1) (annot be -re
$\frac{1}{10000000000000000000000000000000000$
ON-2+ f(x1= \185-x2
Domain; 16-x2 = 0
$\Rightarrow \chi^2 - 16 \leq 0$
$\frac{1}{x} \left(\frac{x+y}{x-y} \right) \leq 0$
$-\infty \frac{1}{4} \frac$
Ronge let $y = f(x)$
7- 1/6-x2(1) [CLASSTIME]

Topic: Date: Page No.: Page No.: 2)
$y^{2} = 16 - x^{2}$
$\Rightarrow \chi^2 = 16 - y^2$
$\Rightarrow \chi = \pm \sqrt{6-y^2}$
It is not for all value of y such tract
16-y² >0
$y^2 - 16 \leq 0$
$(y+y)(y-y) \leq 0$
t - + Y \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
- ~ - 4 y ~
but hun 4 (1) y cant be -u
: Range = [0,47 Ans
$\frac{Q_{\alpha'3}}{2-x^2} + f(x) = \frac{3}{2-x^2}$
2-x2
$\alpha - x^2 \neq 0$
$(\chi^2 - 2) \neq 0$
(x+5)(x-5) +0
: Demaine R-1-52,524
Ronge. let $y=f(n)$
14)
Y-3 2-X2
$\Rightarrow 2y - \chi^2 y = 3$
$\Rightarrow \chi^2 y - 2y - 3$
$\Rightarrow \chi^2 = 2y - 3$
7
$\chi = \pm \sqrt{2y-3}$
x is led for all values of y Sucy had
$24-3 = 0 \text{ and } 4\pm 0$
9
t - , + ; y \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
-a 3/2 a
: Rong (-00,0) U [3/2,00) Ars
CLASSTIME'

Topic:
$O_{A} \cdot Y + f(x) = \frac{x}{1+x^2}$
Dangin XER
Ronge let $y = f(x)$
$J = \frac{\gamma}{1 + \gamma^2}$
$\frac{1}{2} \frac{1}{2} \frac{1}$
A = A + A + A + A + A + A + A + A + A +
Occodegne Formulg N= 1± V1-442
x is eal for all value of y Such that
has way for an value of July 1910
$1-4y^2 > 0$ and $2y + 0$
$44^{3}-1\leq0$ and 3 ± 0
$(2y+1)(2y-1) \neq 0$ and $y \neq 0$
+ - +
-w -1/, 1/2 a
y ∈ (-1, 1) 2 y ≠ 0
but when $x = 0$ then $f(x) = 0$
:- Rary = [-1/2, 1/2] Ans
On-5 + (n = 1x-2)
2-X
Damain 2-x to 7 to 2 main R-124
1 + 2
Range of (x1= /2-2)
2
:- Range = 1-1.14 Ans
CLASSTIME

	Topic: Date: Page No.: (4)
01.6	→ f(x1= 1 1-x2
	Damain 1-x2 +0
	Danan NER-1-14
	Dunas of (11/1)
	Range let y=f(x)
	Y= 1 1-X2
	=> y-x2y=1
	A 22y = 4-1
	= 7 ² = 3-1
ų.	A 7 = 1, 5-1
	n is lead for all value of y Such frat
	n is lead for all value of y Such fact
	<u>+</u> , - , +
77	
	Ronge (-0,0) U[1,01) Ans
On-7	+ f(x) = ax - b
	(7-d
	Domay (x-d to
	: Dama= R-194
	Kary . Let $Y = f(x)$
	$\frac{a}{y} = \frac{ax - b}{(x - d)}$
	$\Rightarrow (xy - dy = ax - b)$ $\Rightarrow \gamma((y - a) = dy - b$
	$\Rightarrow \gamma(((y-a)) = dy - b$





L	Topic:
	i y=1 connot by included (7)
	= Ronge = R-1-1-14 An
On- 12-	f(x1= \sqrt{x-1} + \sqrt{3-x}
	7170 and 3-120
	x = 1 and $x = 0$
	2791 and $31 \leq 3$
	7(- (1, a) and 2(-10)
	taking (common
· ·	- Re 1 3
	· 7(-[1,3] Ars
	-x
-	
	(CLASSTIME)