Page No.:.... Date.: Topic:..... Solution of warksnew x10:4 (class 5)
Relation & Functions A= 12,4,6,94 B= 14,6,18,27, 544 a a a factor of b means a divides b & a & b R= 4(2,4) (2,6) (2,18) (2,54), (6,18) (6,54), (9,18) (9,27) (9,54) OM2 = R= (x,y): Y= x+6; x FN, Y FN and x < 64 when x = 1 => 7=1+6= 7 E~ when x = 2. 7= 2+6 = 5 EN when x=3 7-3+6 = 5 EN when x= 4 7= Y+G = 5.5 ¢N 7 y= 5+6 = 6.2 ¢N up 4=5 : R= { (1,7) (2,5) (3,5) (6,7) 4 Banain = {1,2,3,64. $-3 \le x \le 3$ f(n1= -35 X 2 -2 -(2+x)-(x-2) f(n1= -2 \ x < 2 (2+x)-(x-2) $2 \leq x \leq 3$ (2+x) + (x-L) -2x: -3 = x < -2 Flale -2 = x < 2 $a \leq x \leq 3$ CLASSTIME

Topic:
Qu. 4- \$\left(x1= 3x^2-1; g(x)= 3+x
91 un - f(x1-9(x1)
$= 37^2 - 1 = 3 + x$
$3\chi^2 - \chi - Y = 0$
$= \frac{1}{3\chi^2 - 4\chi + 3\chi - 4} = 0$
= 2(3x-4)+1(3x-4)=0
$\left(\frac{1}{3} + 1 \right) \left(\frac{3}{3} - 4 \right) = 0$
$\chi = -1, \chi = \frac{24}{3}$
: Danain = \(\frac{1}{2} \frac{1}{3} \fra
Om 5 + f(x1= 2x+3; g(x1= x2+7
91un 9(f(1) = 8
$= \frac{3}{9}(2x+3) = 8$ $= \frac{3}{(2x+3)^2} + \frac{3}{7} = 8$
$\Rightarrow Y\chi^2 + 9 + 12\chi + 7 = 8$
$= 9 \frac{4}{3} \frac{2}{12} \times + 8 = 0$
$= \frac{1}{4} + \frac{1}{3} + \frac{1}{4} = 0$
= (x+1)(x+2) = 0 $= -1, x = -2 Ams$
$\frac{(2\pi)^{2}}{(2\pi)^{2}} = \frac{1}{(2\pi)^{2}}$
$\gamma - 1$
f(f(f(x))) = 0
fmh $f(f(x)) = f(\frac{x+1}{x-1}) = \frac{x+1}{x-1} + 1 = x+y+x-y$
$\frac{3+1}{x-1} - \frac{x+1-x+1}{x-1}$
$f(f(x)) = \frac{2x}{2} = x$
$f(ff(x)) = f(x) - \frac{x+1}{x-1}$
(CLASSTIME)

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	Min $f(f(f(2))) = \frac{2+1}{2-1} = \frac{3}{3} = \frac{3}{4}$	NE
On. 7	* f(n)= y= 9x-b	
	CX -9	
	$\frac{(\alpha)}{(\alpha)} = \frac{4\alpha - b}{(\alpha - a)} \frac{(\alpha - a)}{(\alpha - a)} \frac{(\alpha - a)}{(\alpha - a)}$	
	$\frac{1}{2} f(y) = f\left(\frac{ax-b}{(x-a)}\right)$	
	$= a\left(\frac{ax-b}{cx-a}\right)-b$	
	$\frac{C(\alpha x - b)}{Cx - q} - q$	
	$= a^2 x - 9b - b(x + 9b)$	
	$= \frac{a^2x - ab - b(x + ab)}{acx - bc - acx + ac}$	
	= a ² x - b(x	
	a^2-bc	
	$= \chi(a^2 - by)$	
	Dr.	
-	7(4) = X AM	
On 8	* f(n)= n+1	
	IP (+(x))3= +(x3) + 3+(4)	
	Lty [#(21)]3	
	= (\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	$= x^3 + 1 + 3x + 3$	
	RN -9(3) +28(1)	
	$J = \frac{1}{2} + $	(CLASSTILLS)
		CLASSTIME*

Topic:	
$= \chi^3 + \frac{1}{\chi^3} + 3\left(\frac{1}{\chi} + \chi\right) $ (4)	1)
$= \frac{3}{3} + \frac{1}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{1}{3} + $	
: Ly= Rny Provid	
ON 9 - A = 1/12/34 R = 1/0 h · 103-12/45	
$Q_{11}q \rightarrow A = \{1_{1}^{2}_{1}^{3}_{1}$	
$R = \left(\binom{l_{11}}{l_{12}} \left(\frac{2}{1} \right) \left(\frac{2}{2} \right) \left(\frac{2}{2} \right) \left(\frac{2}{3} \right) \left(\frac{3}{12} \right) \left(\frac{3}{12} \right) \frac{4}{12} \frac{A}{12} \frac{A}{12$	
ONIO + Refany: x-y as divisible by my	
(1) Lu- (x,y) ER	
=> 71-y is divsiby byn	
=> 1-y= n/ (1 EZ)	
Linx something	
= y-y=-n/ which exdivbyn	
= (Y1X) FR	
(2) lu (1,4) tR and (4,2) tZ -2 71-4=11 and 4-2=1K (1, KEZ)	
	_
New X-Z= (X-Y) + (Y-Z)	
$\frac{1}{n-7} = \frac{n}{1+n} $	
21-2- n(1+k) which it diviby byn	
$\Rightarrow (Y_1Y) \in R$	
(3) for each XEZ N-N=0 which or divuby by n	
x-y=0 units a arrivery	
=> (Y,Y) ER ANY	
CLASSTIME	1