	further of g is defined as $g(n) = \frac{1-mn}{n-2m}$,
m.	fation of g is defined to a 22 m
M 7	2 am . 14 J
	11 - 3
9)	the value of m. $= -\frac{219}{39}$
b)	9.9(4)
()	g-1(x). x+5
	-m(3) = 1-3m = 2
0)	3-2m $3-2m$ $3m = 2(3-2m)$
(3	
	1-3m = 6-4m
	-3m14m=6-1
	m = 5
	$a_{09}(9) = g(g(1)) - g(9) = 1 - 45 = 4^{1}$
1	$9 \circ 9 (9) = 9(9(9)) \longrightarrow 9(9) = 10$
b) (3-3 (1)
	=1-(44)(5)
	44 - 10
	= - <u>219</u> 34
	7 21 3 319
	the state of the s
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$(\alpha) = \text{Let } y = 1 - 5\alpha$
-) 9	7-10
-) 9	
-) 6"	ncy-10 y = 1-5%
-) 67	ny - 10y = 1 - 5x
-) 6	ny+5x=1+10y
-) 6"	ny+5x=1+10y n(y+5)=1+10y
	ny+5x=1+10y n(y+5)=1+10y y+5
9	ny+5x=1+10y n(y+5)=1+10y y+5

6 4 / 6(2) 2 2 4 14	
Given that of (a) = 2 or + 14	
and $g(a) = \sqrt{n-2}$, find	
a) the domain of $f(x)$ and $g(x)$ b) $(f \circ g)(x)$. = $\mathcal{L}(g(x)) = 2$	$). = p_{\phi} = (-\infty, \infty)$
3) (f o g) (x) x (g(x)) = 2.	(+10-09-[2,00)
c) the value of a if (fog)(x)	= g-1 (x) = x = -0
	2 0-4
a) i) d(m) = 2 m2 + 14	
	() f(g(n)) = g-1(n)
2M2 = 0	1.41.460
9 = 0	Let g(x)=y
	(Ta-2)= y2
Domaing: (-0,0) U (0,00)	9
/	2-5 = 3
il a car	N= 42-+2
il) g(21) = 72.2	- 0 ,2
1 1 1 1	16
7m-2=0	9- (2) = 22+2
W: 5	110 - 02 10
7	2n+10=n2+2
n	-n2+2n+10+2=0
Domaing: (2,00)	$-x^{2}+2x+8=0$
	12/178 = 0
	al = -2, 2/2 = 4
b) (fog)(n) = f[g(n)](n)	
= 2 (VA-2)2 + 14	
The second secon	
1 (M) = 2 = 2 · (Q(-2) + 14	
= 271-4+14	
= 201+10.	
all the same	
0.646.	
f(g(n)) = 2n+10	
/ 1	
+	-