Exercise 1	Date.:
+(u) - x2 -5	
1. f(s) = 5 ² -5	
= 25 -5	
= 20	
	in the second second
2. f(c+1) = (c+1)2-5	* 12 1/2 5 XX
= c ² + 2C + 1 - 5	
= c ² + 2C - 4	
3. $f(\kappa^3) = (\kappa^3)^2 - 5$	
= K ⁶ - 5	
$4. f(n+h) = (u+h)^2-5$	
$= u^2 + 2xh + h^2 -$	5
Exercise 2	
1. $f(u) = x^2 + 3$ df:	{ UINZUS, NER}
N2 +3 20	
и ² 2-3	
N 2 V3	
2. 9(u) = 1/(u-2) Df:	{ulu = 2, uer}
u-2 ≠0	
N #2	

Date.:

3. h(u) = VI+5x Of: {x1 u 2 - 1/5, u e R}

175x 20

No.:

ル 2 - 1/5

Exercise 5 $f(n) = n^2 + 1 \qquad g(n) = n + 1$

1. $f \circ g(z) = (n+1)^2 + 1$ $= u^2 + 2u + 1 + 1$ $= u^2 + 2u + 2$

- 2 + 2 · 2 + 2

= 10

2. fog (N) = N2 + ZN +2

3. $fog(a^2) = u^2 + 2x + 2$

4. $90f(2) = (x^2+1)+1$

= 4+1 +1

= 6

5. $90f(x) = (x^2+1)+1$ = x^2+2

6. $9cf(\sqrt{a}) = (x^2+1)+1$ = $\sqrt{a}^2 + 2 = 7 + 2$