J. Theresyon $X_0 = 2$ $\frac{2+4}{2} = 3$ $f(3) - 3^3 - 2 \cdot 3^2 - 5$ $2.7 + constant X_0 = 2,$ $\frac{2+3}{2} = 2.5$ $f(2,5) = (2.5)^3 - $ $= 15.625 - 12.5$ $3.7 + constant X_0 = 2.5$ $\frac{2.5+3}{2} = 2.75$ $\frac{2.5+3}{2} = 2.75$ $f(2,95) = (2.75)^3.$	, X,=4 = 4 X,=3 2.(2,5)=-	5				
$\frac{2+4}{2} = 3$ $f(3) - 3^{3} - 2 \cdot 3^{2} - 5$ $2.74erougen                                    $	= 4 x <sub>1</sub> = 3 2. (2 <sub>1</sub> x <sub>1</sub> ) -					
$f(3) - 3^{3} - 2 \cdot 3^{2} - 5$ $2.74croggon                                  $	x,=3 2.(2,5)-	5				
$f(3) - 3^{3} - 2 \cdot 3^{2} - 5$ $2.74crogyon                                   $	x,=3 2.(2,5)-	5				
$f(3) - 3^{3} - 2 \cdot 3^{2} - 5$ $2.74crogyon                                   $	x,=3 2.(2,5)-					
2. Therefore $x_0 = 2$ , $\frac{2+3}{2} = 2.5$ $f(2.5) = (2.5)^3 = 15.615 - 12.5$ $= 15.615 - 12.5$ $= -1.875$ 3. Therespore $x_0 = 2.5$ $\frac{2.5+3}{2} = 2.75$	x,=3 2.(2,5)-	5				
$\frac{2+3}{2} = 2.5$ $f(2.5) = (2.5)^{3} - \frac{15.625 - 12.5}{2} - \frac{1.895}{2}$ $3.77 + \frac{2.5}{2} = 2.75$	2. (2,5) -	5				
$f(2/5) = (2/5)^3 - \frac{15.615 - 12.5}{2} - \frac{15.615 - 12.5}{2} - \frac{1}{2} - \frac$	. 5	5				
$f(2/5) = (2/5)^3 - \frac{15.615 - 12.5}{2} - \frac{15.615 - 12.5}{2} - \frac{1}{2} - \frac$	. 5	5				
$= 15.625 - 12.5$ $= -1.895$ $3.7 + 2.5$ $\frac{2.5 + 3}{2} = 2.75$	. 5	5				
= -1,895 3. Therosyon Xo = 2,5 2,5+3 = 2,75	. }					
3. Therasyon Xo: 2.5  2.5+3 2 = 2,75	X1 = 3					
3. Therasyon Xo: 2.5  2.5+3 2 = 2,75	X, = 3					
2,5+3 = 2,75	X1 = 3			-		
P(205) = (2.75)						
1 217 1 60171	2. (2,95) -	5 1				
= 20, 7968 - 15,17	1-5					
3 0,6918						
4. The rosyon xo=21	5 V.=	2.75	100			
						5.
2,5 + 2,7 = 2,6	25					
2	2		2			
f(2,625) = (2	6217-2	(2,625)	-5			
= 18,08783 -	13,7817-	.5				
f(2,621) -	0,633					
						+

So142	Enes ORUG	+
4 5.	02220224559	
1. Herayon X 1 X,	-2	
1+2 - 15	115) = (115) + 4(115) 2.10	
2 70	07 = (117, 7, 7, 113), 10	
3,375+3-		
= 2,375		
2. Therasyma Xo: 1.	$X_1 = f_1 S$	
1+1,5 = 1,25	f((1,25) = (1,25) + 4(1,25) - 10	
2	1,953/25 + 6,25-10	
	= -1,7968	
3 /terosjon 8 xo = 1,25	X1 = 4,5	
	2 2	
1,25 + 1,5 - 1,375	f(1375)3+4(1375)2-10	
	= 0,262103	
	#	
4 Tterasyon8 Xo= 1,25	X = 1,375	
1,25 + 1,375 = 1,312	<del>5</del>	
	A(1/3187) = (1/3/27) + 4. (1/3/25) -10	
		-
	= -0,848	
		+
		-

3. Soru Fre ORUG 02220224558 Forksign = f(x)= X2 Fork, Türevi = 1/(x) = 1/x 3 Newton Raphson Jonters: = Xn+1 = Xn - P(xn) Xo: 1 segelin.  $X_1 = X_0 - \frac{f(x_0)}{f'(x_0)}$ X1 = 1 - 1 - 1/3 X.=1-1/3=1-3=-2 $x_2 = x_1 - \frac{f(x_1)}{f'(x_1)}$ 12=-2+2.3836 x2 = 0,3836 Porus 3 Bu sekilde davan ederiz, Veriler Kök 74in daginden sonica ulajanggabilit Foolsijour källeri, & zellikle nepatif deperter i um kormuktur Bu redenle takin torn alorak gergeklerip gergeklerredigine veg tornant bir saying vlayp vlaimoidifini belirlenek için daha fasla oraliz yonalyt.

Soru 4	Fres ORUG
	02220224559
1. Theresyon	
x, - x - P(x)	2-4(2)
1 f(x)	- = 2-f(2) _1.635 f(2)
19	
2. Iteraspon	$X_2 = X_1 - f(x_1)$
•	P'(xi)
	$X_2 = (1.635) - \frac{f(1.635)}{f'(1.635)} = 1.70520$
3. Thereasyon	711,6571
3,1,42,030	$x_3 = x_2 - f(x_2)$
	f(x2)
19	X3 = (1,705) - f(1,705) _ 1,705
	1'(1,205)
4. Herosypon	$X_4 = X_3 - \underline{f(x_3)}$
4. iterasyon	P'(x)
	V (42-5) (42-5)
	xy=(1,705) - f(1,705) = 1,705 f(1,205) **
	f'(1,205)
9	
9	
5	
	Kadint ali

-