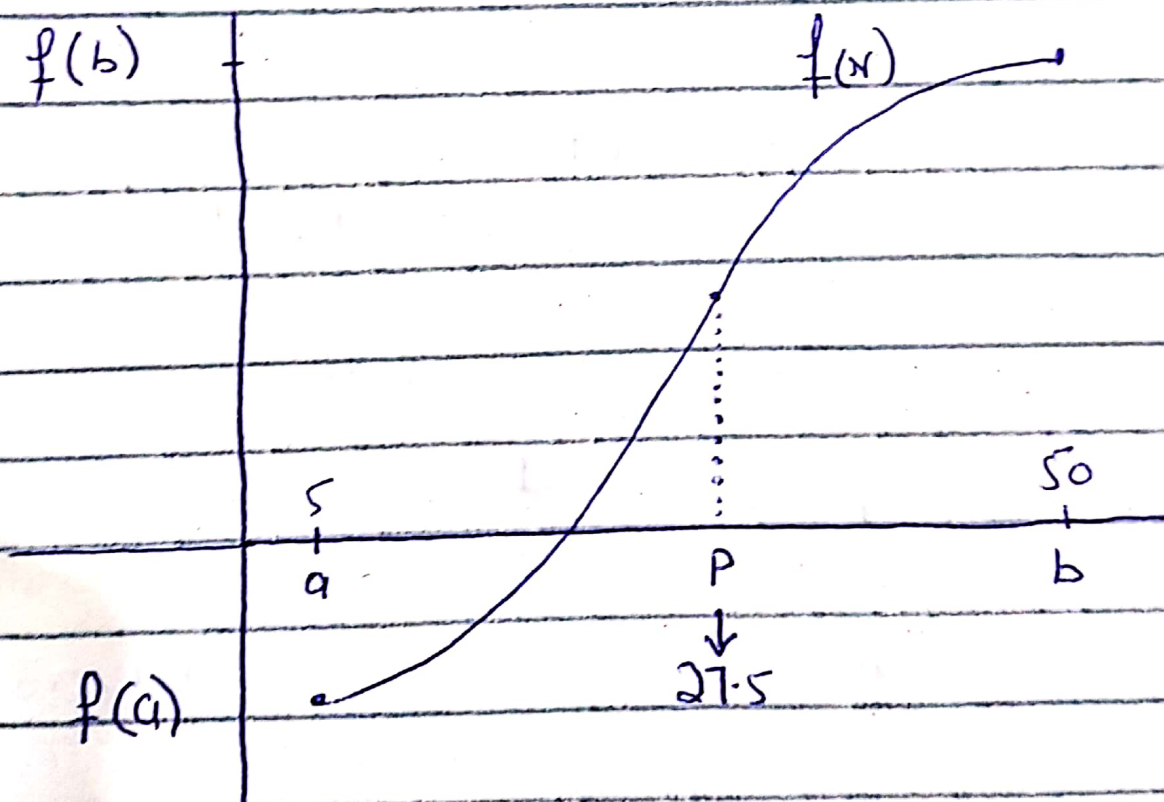


Name: Ibrar  
Roll no.: 19D-0104  
Numerical computing  
Assignment # 3

$$f(x) = x^2 - 89$$

$$a = 5$$

$$b = 50$$



$$f(a) = -56$$

$$, f(b) = 2419$$

$a_n$	$p_n$	$b_n$	$f(a)$	$f(p)$	$f(b)$
5	27.5	50	-56	675.25	2419
5	16.25	27.5	-56	183.062	675.25
5	10.625	16.25	-56	31.890	183.062
5	7.8125	10.625	-56	-19.964	31.890
7.812	9.218	10.625	-19.964	3.985	31.890
7.812	8.515	9.218	-19.964	-8.484	3.985
+8.515	8.867	9.218	-8.484	-2.372	3.985
8.867	9.042	9.218	-2.372	0.775	3.985
8.867	8.955	9.042	-2.372	-0.806	0.775
8.955	8.999	9.042	-0.806	-0.017	0.775
8.999	9.020	9.042	-0.017	0.378	0.775
8.999	9.010	9.020	-0.017	0.180	0.378
8.999	9.004	9.010	-0.017	0.081	0.180
8.999	9.001	9.004	-0.017	0.031	0.081
8.999	9.000	9.001	-0.017	0.001	0.031