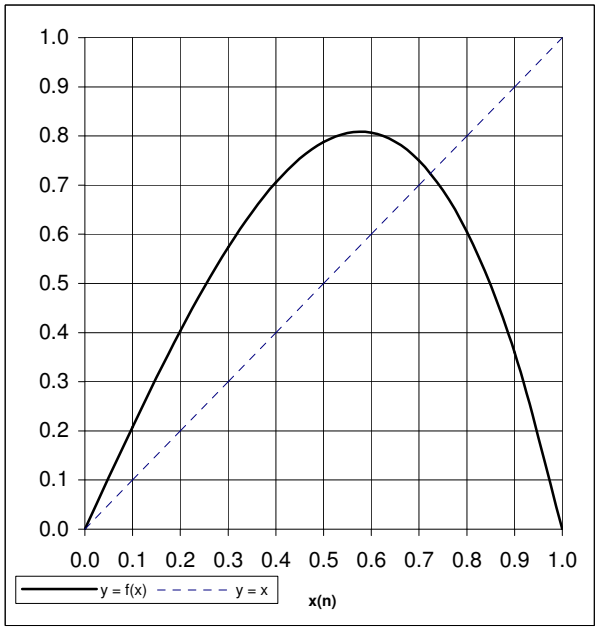
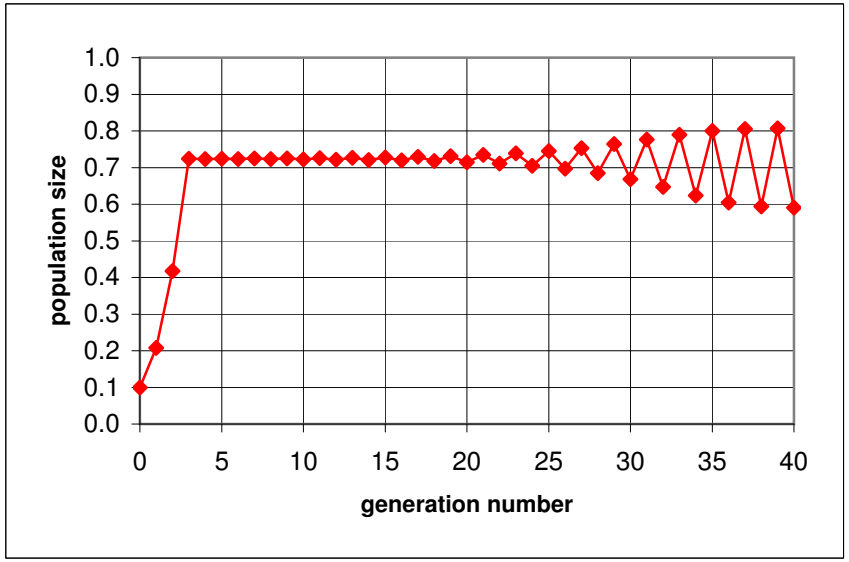
x(n+1) = bx(n)[1 - x(n)^2]

b = 2.1 x* = 0.723747

n	x(n)	f(x(n))	x	y = f(x)
0	0.10	0.21	0.00	0.00
1	0.21	0.42	0.10	0.21
2	0.42	0.72	0.20	0.40
3	0.72	0.72	0.30	0.57
4	0.72	0.72	0.40	0.71
5	0.72	0.72	0.50	0.79
6	0.72	0.72	0.60	0.81
7	0.72	0.72	0.70	0.75
8	0.72	0.72	0.80	0.60
9	0.72	0.72	0.90	0.36
10	0.72	0.73	1.00	0.00
11	0.73	0.72		
12	0.72	0.73		
13	0.73	0.72		
14	0.72	0.73		
15	0.73	0.72		
16	0.72	0.73		
17	0.73	0.72		
18	0.72	0.73		
19	0.73	0.71		
20	0.71	0.73		
21	0.73	0.71		
22	0.71	0.74		
23	0.74	0.70		
24	0.70	0.74		
25	0.74	0.70		
26	0.70	0.75		
27	0.75	0.68		
28	0.68	0.76		
29	0.76	0.67		
30	0.67	0.78		
31	0.78	0.65		
32	0.65	0.79		
33	0.79	0.62		
34	0.62	0.80		
35	0.80	0.60		
36	0.60	0.81		
37	0.81	0.59		
38	0.59	0.81		
39	0.81	0.59		





f(x) = bx(1 - x^2) = bx - bx^3
f' ' (x) = b - 3bx^2

f(x) = x if x = x* = sqrt[(b-1)/b]
f ' (x) = 0 if x = sqrt(1/3)
f(sqrt(1/3) = (2/3)bsqrt(1/3) ; a max

f(sqrt(1/3)) ≤ 1 if b ≤ [3sqrt(3)]/2 ≈ 2.598

f ' (0) = b

40	0.59	0.81