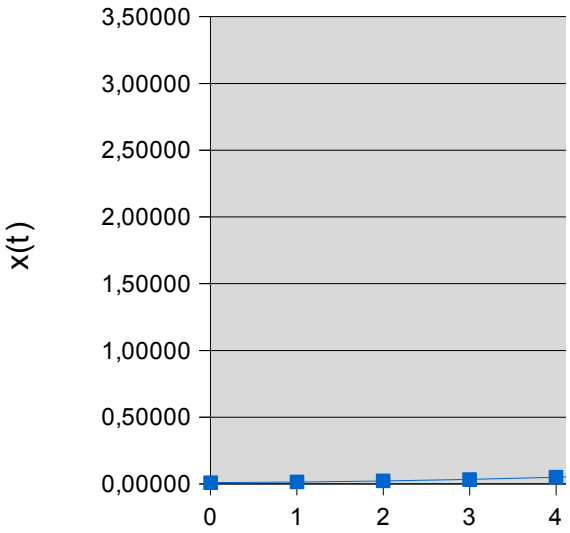
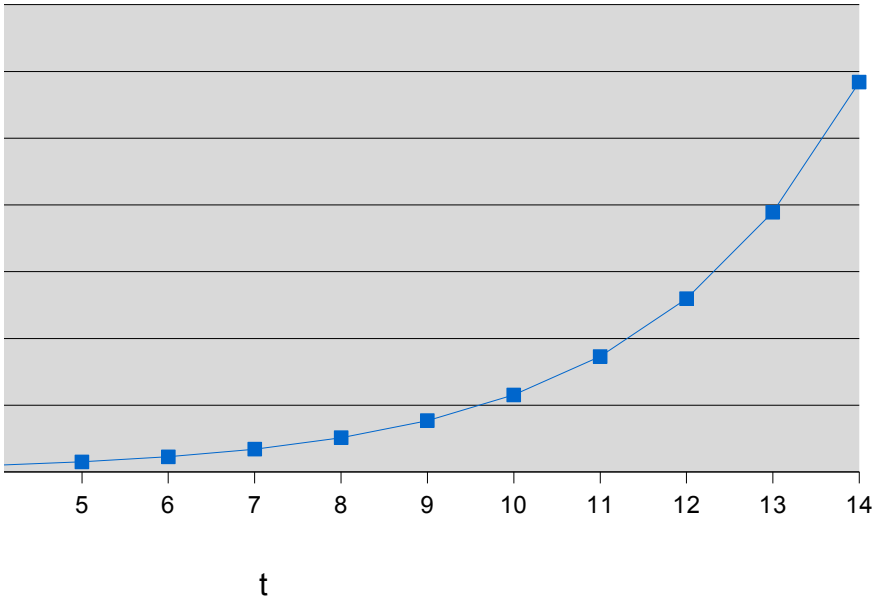
Geometrický růst

$x(t+1)=qx(t)$

t	x(t)	q=	1,5
0	0,01000		
1	0,01500		
2	0,02250		
3	0,03375		
4	0,05063		
5	0,07594		
6	0,11391		
7	0,17086		
8	0,25629		
9	0,38443		
10	0,57665		
11	0,86498		
12	1,29746		
13	1,94620		
14	2,91929		



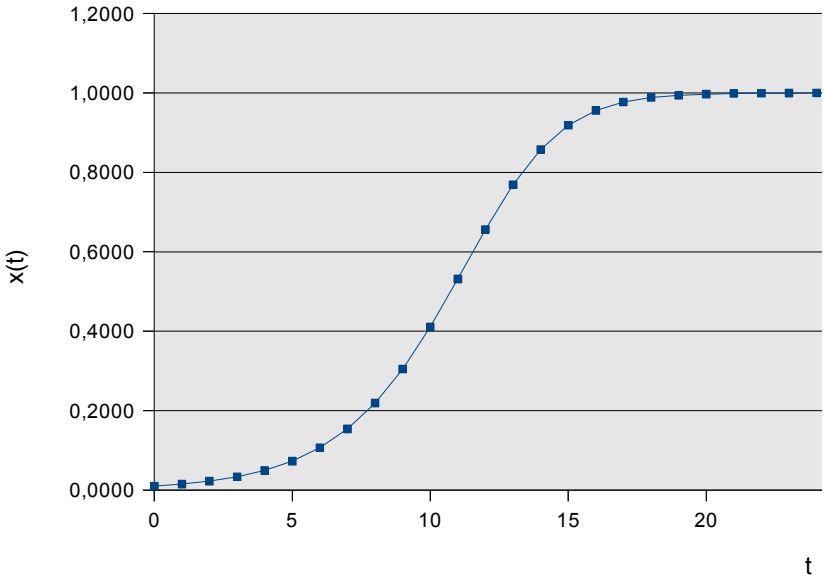
Geometrický růst

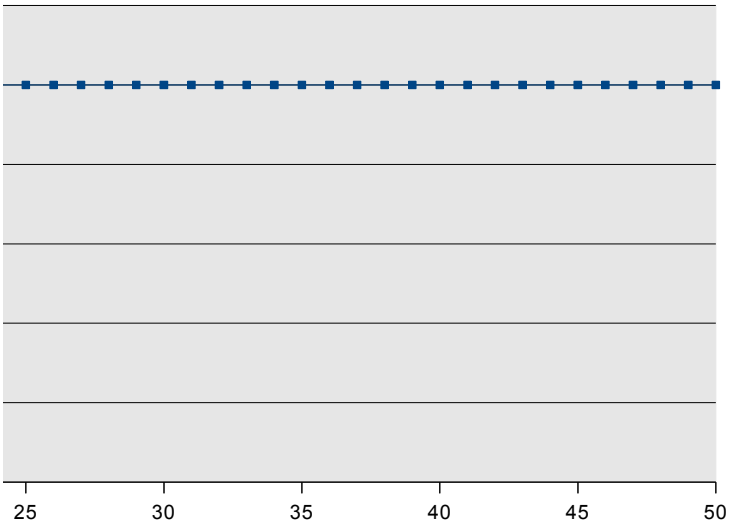


Logistická rovnice - Maynard Smith, May

x(t+1)=x(t)(r-(r-1)/K x(t))

t	x(t)	r=	1,5
0	0,0100	K=	1
1	0,0150		
2	0,0223		
3	0,0332		
4	0,0493		
5	0,0727		
6	0,1064		
7	0,1540		
8	0,2191		
9	0,3046		
10	0,4105		
11	0,5315		
12	0,6560		
13	0,7689		
14	0,8577		
15	0,9187		
16	0,9561		
17	0,9771		
18	0,9883		
19	0,9941		
20	0,9970		
21	0,9985		
22	0,9993		
23	0,9996		
24	0,9998		
25	0,9999		
26	1,0000		
27	1,0000		
28	1,0000		
29	1,0000		
30	1,0000		
31	1,0000		
32	1,0000		
33	1,0000		
34	1,0000		
35	1,0000		
36	1,0000		
37	1,0000		
38	1,0000		
39	1,0000		
40	1,0000		
41	1,0000		
42	1,0000		
43	1,0000		
44	1,0000		
45	1,0000		
46	1,0000		
47	1,0000		
48	1,0000		
49	1,0000		
50	1,0000		

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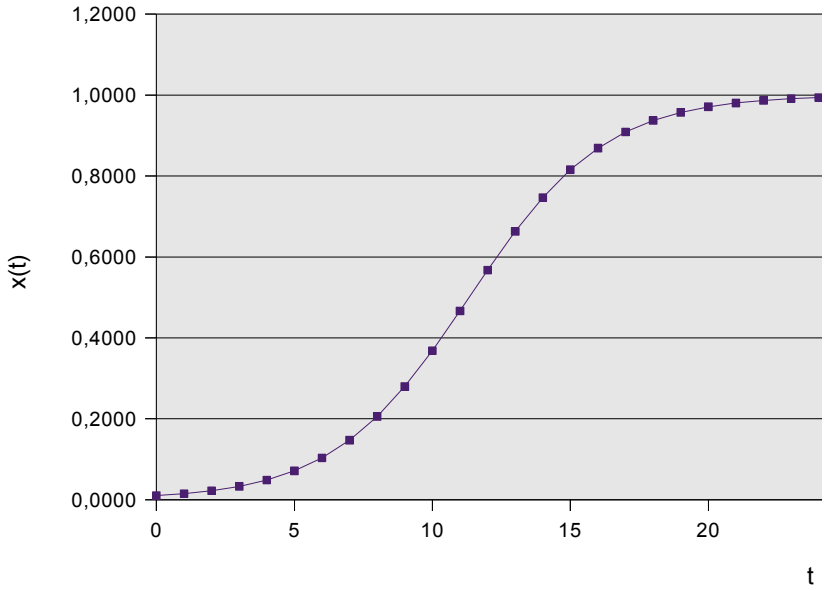
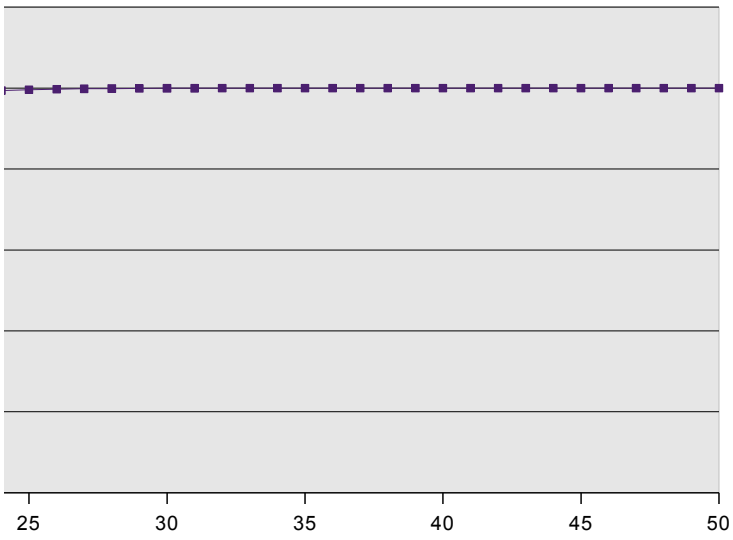
Beverton-Holt, Pielou

x(t+1)=rKx(t/(K+(r-1)x(t))

t	x(t)	r=	1,5
0	0,0100	K=	1
1	0,0149		
2	0,0222		
3	0,0330		
4	0,0486		
5	0,0712		
6	0,1032		
7	0,1472		
8	0,2056		
9	0,2797		
10	0,3681		
11	0,4663		
12	0,5672		
13	0,6628		
14	0,7468		
15	0,8156		
16	0,8690		
17	0,9087		
18	0,9372		
19	0,9573		
20	0,9711		
21	0,9805		
22	0,9869		
23	0,9913		
24	0,9942		
25	0,9961		
26	0,9974		
27	0,9983		
28	0,9988		
29	0,9992		
30	0,9995		
31	0,9997		
32	0,9998		
33	0,9998		
34	0,9999		
35	0,9999		
36	1,0000		
37	1,0000		
38	1,0000		
39	1,0000		
40	1,0000		
41	1,0000		
42	1,0000		
43	1,0000		
44	1,0000		
45	1,0000		
46	1,0000		
47	1,0000		
48	1,0000		
49	1,0000		
50	1,0000		

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Ricker

x(t+1)=x(t)exp[(1-x(t)/K) ln r]

t	x(t)	r=	1,5
0	0,0100	K=	1
1	0,0149		
2	0,0223		
3	0,0331		
4	0,0490		
5	0,0721		
6	0,1050		
7	0,1509		
8	0,2129		
9	0,2930		
10	0,3902		
11	0,4997		
12	0,6121		
13	0,7163		
14	0,8036		
15	0,8702		
16	0,9172		
17	0,9485		
18	0,9685		
19	0,9810		
20	0,9886		
21	0,9932		
22	0,9959		
23	0,9976		
24	0,9986		
25	0,9991		
26	0,9995		
27	0,9997		
28	0,9998		
29	0,9999		
30	0,9999		
31	1,0000		
32	1,0000		
33	1,0000		
34	1,0000		
35	1,0000		
36	1,0000		
37	1,0000		
38	1,0000		
39	1,0000		
40	1,0000		
41	1,0000		
42	1,0000		
43	1,0000		
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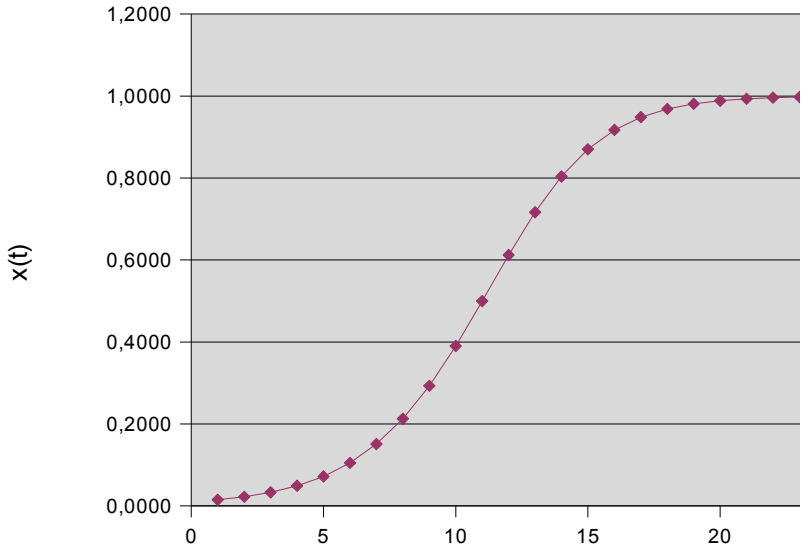
45	1,0000		
46	1,0000		
47	1,0000		
48	1,0000		
49	1,0000		
50	1,0000		



1,04

Ricker