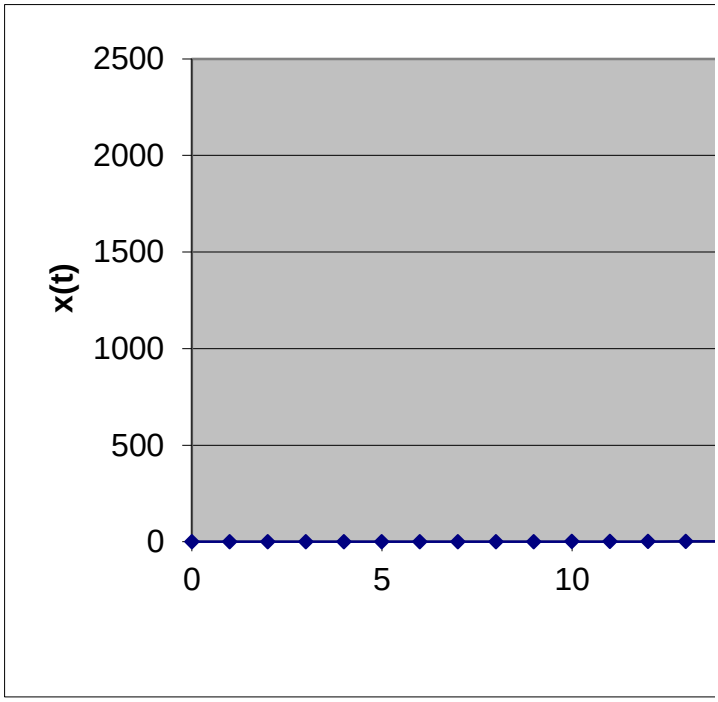
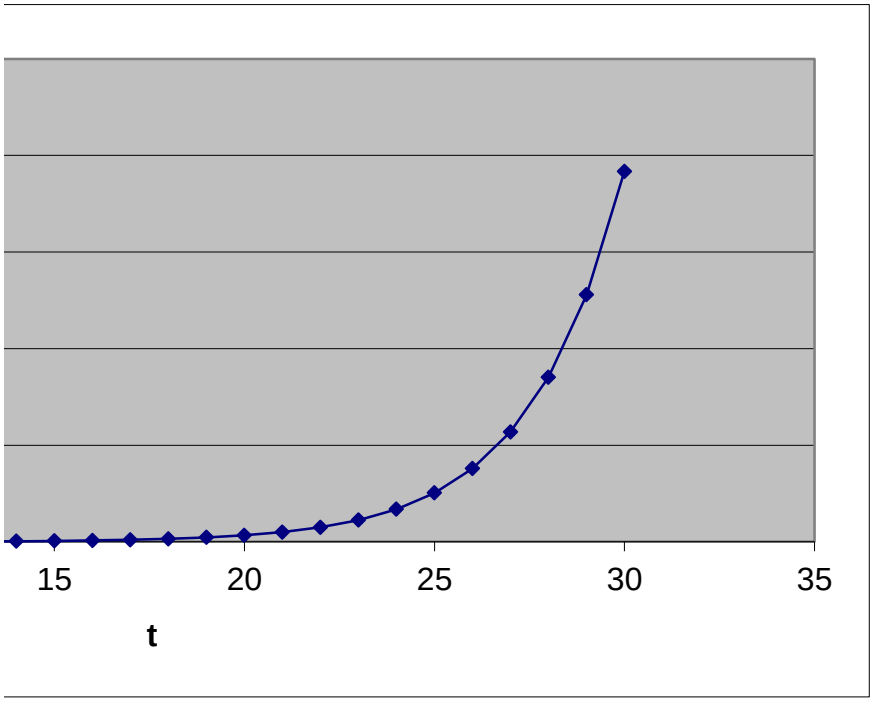
Malthusův model x(t+1)=r*x(t)

Parametr: r = 1.5

t	x(t)
0	0.01
1	0.015
2	0.0225
3	0.03375
4	0.050625
5	0.075938
6	0.113906
7	0.170859
8	0.256289
9	0.384434
10	0.57665
11	0.864976
12	1.297463
13	1.946195
14	2.919293
15	4.378939
16	6.568408
17	9.852613
18	14.77892
19	22.16838
20	33.25257
21	49.87885
22	74.81828
23	112.2274
24	168.3411
25	252.5117
26	378.7675
27	568.1513
28	852.2269
29	1278.34
30	1917.511

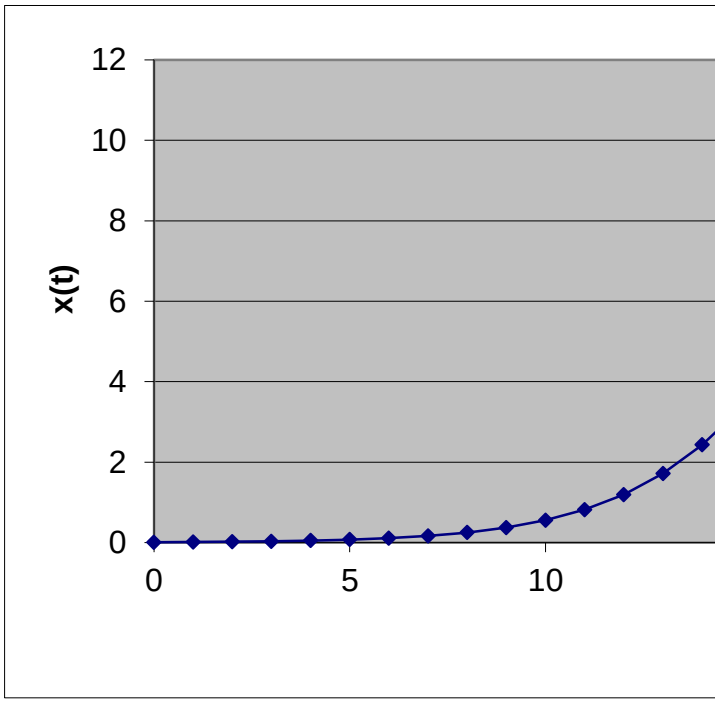



15
20
25
30
35
t

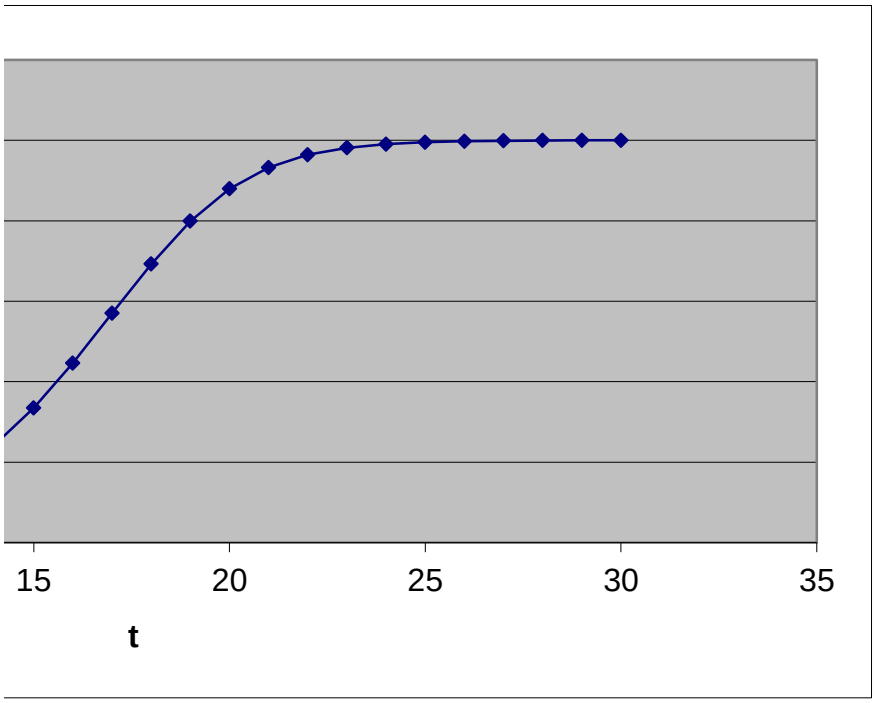
Verhulstův model x(t+1)=x(t)*(r-(r-1)/K*x(t))

Parametry: *r*= 1.5 **Stac**
K= 10

t	*x(t)*
0	0.01
1	0.014995
2	0.022481
3	0.033697
4	0.050488
5	0.075605
6	0.113121
7	0.169042
8	0.252135
9	0.375023
10	0.555503
11	0.817825
12	1.193296
13	1.718746
14	2.430414
15	3.350275
16	4.464196
17	5.699842
18	6.925353
19	7.990004
20	8.792997
21	9.323656
22	9.638956
23	9.81296
24	9.904731
25	9.951912
26	9.97584
27	9.987891
28	9.993938
29	9.996967
30	9.998483



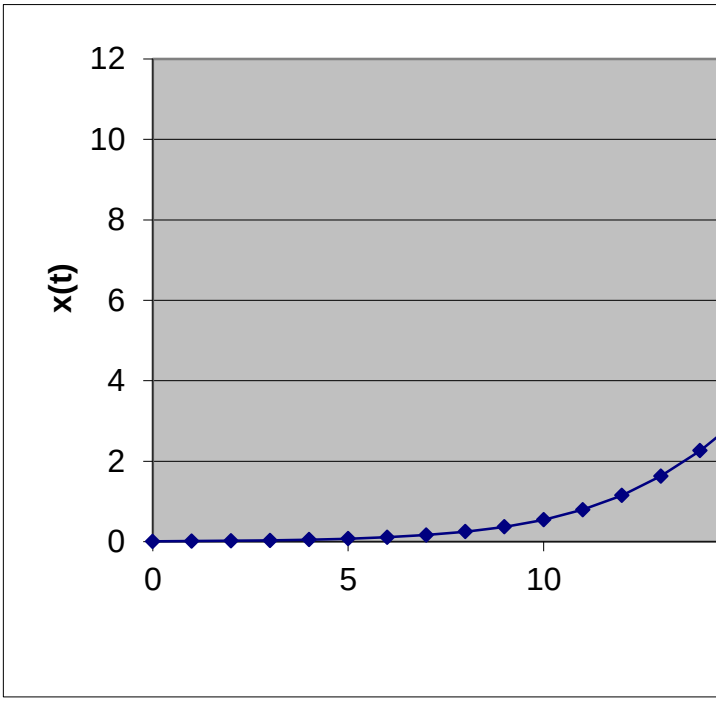
ionární řešení: 10 asymptoticky stabilní



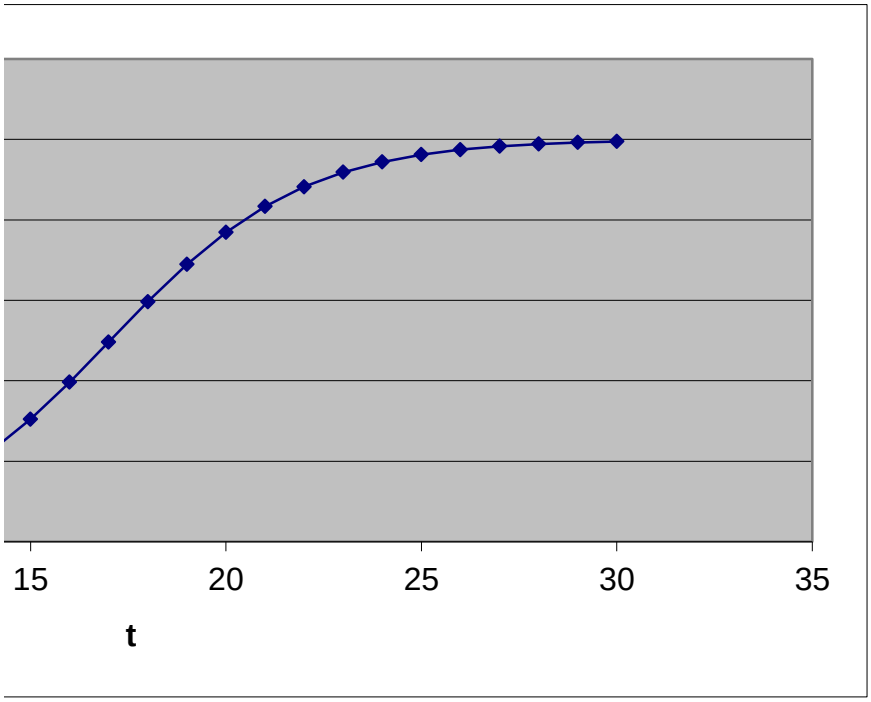
Model Pielou x(t+1)=x(t)*x*K/(K+(r-1)*x(t))

Parametry: *r*= 1.5 *K*= 10 **Stac**

t	*x(t)*
0	0.01
1	0.014993
2	0.022472
3	0.03367
4	0.05042
5	0.07544
6	0.112735
7	0.168154
8	0.250129
9	0.370559
10	0.545727
11	0.796847
12	1.149473
13	1.630499
14	2.261389
15	3.047503
16	3.966811
17	4.965381
18	5.966719
19	6.8935
20	7.689776
21	8.331353
22	8.822049
23	9.182604
24	9.439806
25	9.619431
26	9.743027
27	9.827205
28	9.884136
29	9.922458
30	9.948171



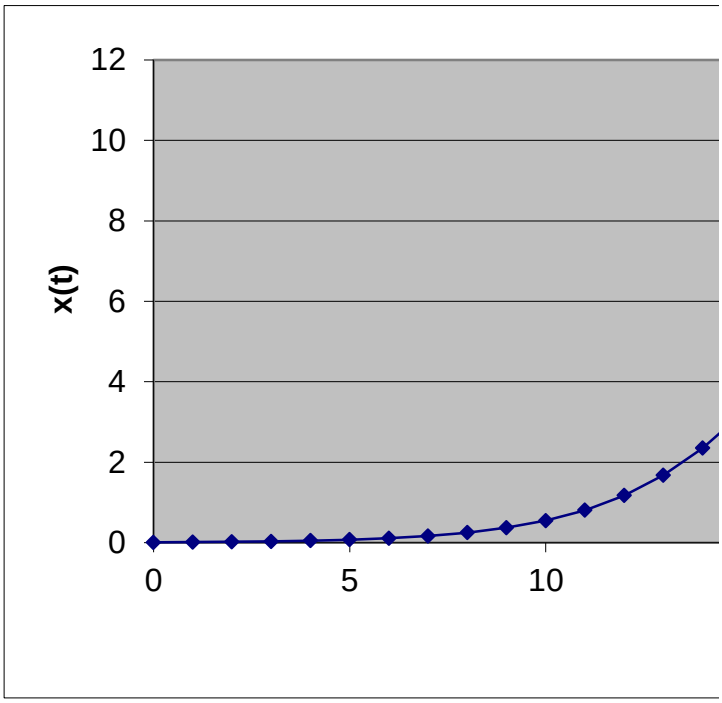
ionární řešení: 10 asymptoticky stabilní



Rickerův model x(t+1)=x(t)*r^(1-x(t)/K)

Parametry: *r*= 1.5 **Stac**
K= 10

t	*x(t)*
0	0.01
1	0.014994
2	0.022477
3	0.033685
4	0.050459
5	0.075533
6	0.112954
7	0.168656
8	0.25126
9	0.37307
10	0.551204
11	0.808532
12	1.173683
13	1.678706
14	2.352368
15	3.20755
16	4.22457
17	5.339281
18	6.449915
19	7.448484
20	8.260338
21	8.864041
22	9.28186
23	9.556103
24	9.729655
25	9.836894
26	9.902165
27	9.941523
28	9.965123
29	9.979225
30	9.987635



ionární řešení: 10 asymptoticky stabilní