The following documents what happens when you iterate (only five times!) the function

$$f(x) = \frac{3}{325}x^5 + \frac{1}{10}x^2 + \frac{3}{911}$$

with various starting values.

That is, a sequence is defined with x_1 = a "random" value, and further elements of the sequence are defined by the rule

$$x_{n+1} = f(x_n)$$

so we're just repeating the function evaluation on the inital value.

Here is what happens for 5 iterations with various starting values:

n	x_n
1	1.
2	0.10944
3	0.00449
4	0.00329
5	0.00329417
6	0.00329416967

n	x_n
1	0.2
2	0.0072950
3	0.0032984
4	0.00329417
5	0.003294169679
6	0.003294169677

n	x_n
1	0.8
2	0.069309
3	0.00377347
4	0.003294508
5	0.0032941699
6	0.003294169678

n	x_n
1	5.0
2	21.734062
3	29890.83775
4	$1.468373 \cdot 10^{20}$
5	$4.2007998 \cdot 10^{98}$
6	**Infinity***

* The software I used (a standard Pascal compiler on one of the Rutgers computers) actually printed the word "Infinity" for this value. What fun!