

¹refs

Logistic Map: Iteration

`-i+1

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$$L_{0} \rightarrow L_{1} = rL_{0}(1-L_{0})$$

$$L_{1} \rightarrow L_{2} = rL_{1}(1-L_{1})$$

 $= -r^3L_0^4 + 2r^3L_0^3 - r^2(1+r)L_0^2 + r^2L_0$

=
$$r rL_0(1-L_0) (1-rL_0(1-L_0))$$

=
$$r r L_0(1-L_0) (1-r L_0(1-L_0))$$

Logistic Map: Iteration

$$L_{i+1} = rL_i(1-L_i)$$

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$$i = 0$$
: $L_0 \rightarrow L_1 = rL_0(1-L_0)$

$$i = 1$$
: $L_1 \rightarrow L_2 = rL_1(1-L_1)$

=
$$r rL_0(1-L_0) (1-rL_0(1-L_0))$$

$$= -r^3L_0^4 + 2r^3L_0^3 - r^2(1+r)L_0^2 + r^2L_0$$

Logistic Map: Parameter

$$L_{i+1} = rL_i(1-L_i)$$

