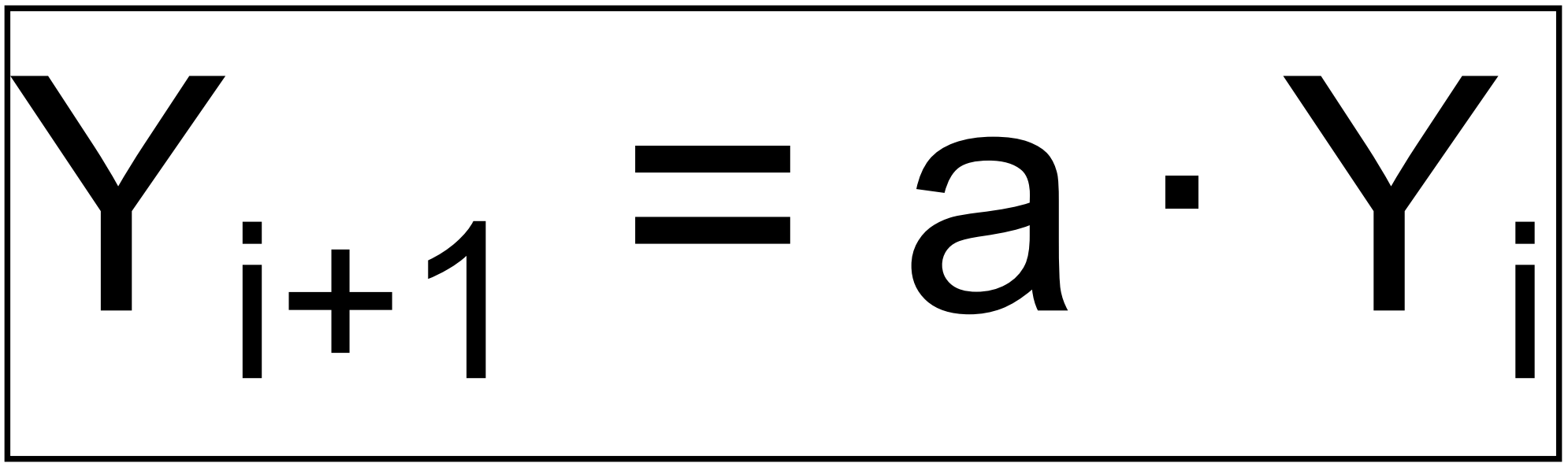
i = 1: $Y_1 \rightarrow Y_2 = a \cdot Y_1 = a \cdot a \cdot Y_0 = a^2 \cdot Y_0$

$i = 2$: $Y_2 \rightarrow Y_3 = a \cdot Y_2 = \ldots = a^3 \cdot Y_0$

1refs

Linear Map: Iteration with a parameter


$Y_{i+1} = a \cdot Y_i$

i = 0: $Y_0 \rightarrow Y_1 = a \cdot Y_0$

$i = n: \quad Y_n \rightarrow Y_{n+1} = a \cdot Y_n = \ldots = a^{n+1} \cdot Y_0$

33

Linear Map: Iteration with a parameter

$$\boxed{Y_{i+1} = a \cdot Y_i}$$

i = 0: $Y_0 \rightarrow Y_1 = a \cdot Y_0$

i = 1: $Y_1 \rightarrow Y_2 = a \cdot Y_1 = a \cdot a \cdot Y_0 = a^2 \cdot Y_0$

i = 2: $Y_2 \rightarrow Y_3 = a \cdot Y_2 = \ldots = a^3 \cdot Y_0$

$\vdots \qquad \vdots$

i = n: $Y_n \rightarrow Y_{n+1} = a \cdot Y_n = \ldots = a^{n+1} \cdot Y_0$

[1]refs

Linear Map: Iteration with a Parameter

$$Y_{i+1} = a \cdot Y_i$$

Y_0 nonspecific

[1]refs