

:

$$x_{n+1} = \frac{\beta x_n + \gamma x_{n-k}}{Bx_n + Cx_{n-k}}, n = 0, 1, 2, \dots (1)$$

$x(-k), \dots, x(-1)$

β, γ, C, B

$k = \{1, 2, \dots\}$

(1)

Mathlab

Mathlab

-:

Ladas Kulenvic

[Dynamics of Second Order Rational Difference Equations: with
Open Problems and Conjectures, Chapman & Hall/CRC, Boca
Rataon, 2002].

$$x_n = \frac{\gamma}{C} y_n$$

$$y_{n+1} = \frac{py_n + y_{n-k}}{qx_n + y_{n-k}}, n = 0, 1, 2, \dots (2)$$

$$p = \frac{\beta}{\gamma}, q = \frac{B}{C}$$

$y(-k), \dots, y(-1)$

p, q

$k = \{1, 2, \dots\}$

$p > q, p < q$

$p > q :$

$k+2 \quad k+1$

k

$1, p/q$

$p \leq pq + 3q + 1 :$

$p < q :$

:

K ❖

k

$1, p/q$



