

962-39-1219

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We investigate the asymptotic behavior, the oscillatory character, and the periodic nature of solutions of the difference equation $x[n+1] = \max\{A, x[n] / (x[n]x[n-1])\}$, for $n = 0, 1, \dots$ where A is a real parameter and the initial conditions are arbitrary nonzero real numbers. (Received October 02, 2000)