

Tamás Szakács

k-Order Linear Recursive Sequences and the Golden Ratio,
Fibonacci Quart. **55** (2017), no. 5, 186–191.

Abstract

In this paper, we investigate sequences $\{G_{n+1}/G_n\}_{n=1}^{\infty}$ which are approaching the Golden Ratio, where $\{G_n\}_{n=0}^{\infty}$ is a k -order linear recursive sequence of real numbers. We show those cases, where the sequence $\{G_{n+1}/G_n\}_{n=1}^{\infty}$ converges quicker to the Golden Ratio than $\{F_{n+1}/F_n\}_{n=1}^{\infty}$ (F_n denotes the n -th Fibonacci number).