

Fibonacci, Lucas and Pell Numbers in Derive for Windows

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Abstract. 8 centuries ago, in 1202, the book “Liber abaci” came out authored by Leonardo Pisano, who is also known as Fibonacci. On the occasion of this anniversary we remember its author and his achievements, in particular Fibonacci numbers and their generalizations. We discuss several methods to compute the Fibonacci numbers and compare their efficiency using the computer algebra system Derive 5.04 for Windows.

Key words: Fibonacci numbers, computer algebra systems