

ASYMPTOTIC REPRESENTATIONS FOR FIBONACCI RECIPROCAL SUMS AND EULER'S FORMULAS FOR ZETA VALUES

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(*Journal de Théorie des Nombres de Bordeaux*, 21 no. 1 (2009), 145–157)

We present asymptotic representations for certain reciprocal sums of Fibonacci numbers and of Lucas numbers as a parameter tends to a critical value. As limit cases of our results, we obtain Euler's formulas for values of zeta functions.

MR 2000 Subject Classification: Primary: 11B39, Secondary: 11M06.

Key words: Fibonacci numbers, Lucas numbers, reciprocal sum, zeta functions