

Falcón Santana, Sergio; Díaz-Barrero, José Luis**Some properties of sums involving Pell numbers.** (English) Zbl 1137.05009

Missouri J. Math. Sci. 18, No. 1, 33-40 (2006).

The Pell numbers P_n are defined by $P_{n+1} = 2P_n + P_{n-1}$ for $n \geq 1$ and $P_0 = 0$, $P_1 = 1$, and it is shown that for all positive integers n the sum S_{4n+1} of the first $4n + 1$ Pell numbers is a perfect square. Then some identities are given involving Pell numbers and binomial coefficients, and finally two divisibility properties of certain sums of Pell numbers are obtained.

Reviewer: [Joachim Piehler \(Merseburg\)](#)**MSC:**

[11B39](#) Fibonacci and Lucas numbers and polynomials and generalizations
[05A19](#) Combinatorial identities, bijective combinatorics

Cited in **2** Reviews
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