

Problem 5 (due Monday, November 6)

Let (f_n) be the Fibonacci sequence: $f_1=f_2=1$, $f_n=f_{n-1}+f_{n-2}$ for all $n>2$. Prove that for every odd $n\geq 3$ the polynomial $x^n+f_nx^2-f_{n-2}$ is divisible by x^2+x-1 .

Each of the submitted solutions is similar to one of our four in-house solutions. For details see the following link [Solution](#).

From:

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Permanent link:

<http://www2.math.binghamton.edu/p/pow/problem5f23>

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