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$$F_0 = 0, F_1 = 1, F_2 = 1, F_3 = 2, F_4 = 3, F_5 = 5, \dots$$

Could the Fibonacci numbers satisfy

$$F_{3n} = a F_n^3 + b F_n^2 + c F_n$$

for some constants a, b, c ?

Idea: choose 3 values of n , and write 3 equations.
Solve for a, b, c

