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This month’s “free sample” is:

3924. Proposed by Michel Bataille.
Let \( \{F_k\} \) be the Fibonacci sequence defined by \( F_0 = 0, F_1 = 1 \) and \( F_{k+1} = F_k + F_{k-1} \) for every positive integer \( k \). If \( m \) and \( n \) are positive integers with \( m \) odd and \( n \) not a multiple of 3, prove that \( 5F_m^2 - 3 \) divides \( 5F_{mn}^2 + 3(-1)^n \).