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Abstract

Let F_n be the nth Fibonacci number. The order of appearance $z(n)$ of a natural number n is defined as the smallest natural number k such that n divides F_k. For instance, $z(F_n) = n$, for all $n \geq 3$. In this paper, among other things, we prove that

$$z(F_n F_{n+1} F_{n+2}) = \frac{n(n+1)(n+2)}{2},$$

for all even positive integers n.