FIBONACCI GRACEFULNESS OF P_n^2 AND $P_P \Theta S_Q$

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Abstract

A simple graph $G(n, m)$ with n vertices and m edges is called Fibonacci graceful if there is a labeling f of its vertices with distinct integers from the set $\{0, 1, 2, 3, 4, 5, \cdots, F_m\}$ so that the induced edge labeling f^+, defined by $f^+(uv) = |f(u) - f(v)|$ is a bijection onto $\{F_1, F_2, F_3, \cdots, F_m\}$. Over the years many Fibonacci graceful graphs have been identified and also many operations have been carried out between two Fibonacci graceful graphs so as to make them again Fibonacci graceful graph. In this paper, we have also identified some more Fibonacci graceful graph.

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