ON SUPER EDGE-ANTIMAGIC TOTAL LABELING OF SUBDIVIDED STARS¹

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Abstract

In 1980, Enomoto *et al.* proposed the conjecture that every tree is a super $(a, 0)$ -edge-antimagic total graph. In this paper, we give a partial support for the correctness of this conjecture by formulating some super (a, d) -edge-antimagic total labelings on a subclass of subdivided stars denoted by $T(n, n + 1, 2n + 1, 4n + 2, n_5, n_6, \dots, n_r)$ for different values of the edge-antimagic labeling parameter d , where $n \geq 3$ is odd, $n_m = 2^{m-4}(4n + 1) + 1$, $r \geq 5$ and $5 \leq m \leq r$.

Keywords: super (a, d) -EAT labeling, subdivision of star.

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