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Non split hop domination number for some mirror graphs and cartesian product of two distinct paths(Article)

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Abstract

In a graph $G=(V, E)$ let S be the subset of V . A set $S \subseteq V$ is a hop dominating set of G , if for every vertex $v \in V - S$ there exists $u \in S$ such that $d(u, v) = 2$. A set $S \subseteq V$ is a non split hop dominating set of G if S is a hop dominating set and $(V - S)$ is connected. The minimum cardinality of non split hop dominating set is called non split hop domination number of G and it is denoted by $NSHD(G)$. In this paper we found $NSHD$ number for some mirror graphs and cartesian product of two distinct paths. © 2018, Forum D'Analyses, Chennai.

Author keywords

[Cartesian product](#) [Hop domination](#) [Mirror graph](#) [Non split hop domination](#)

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