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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⊆ V is a hop dominating set of G, if for every vertex v∈ V- S there exists u∈ S such that d(u,v) = 2. A set S⊆ 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'Analystes, Chennai.

Author keywords

Cartesian product | Hop domination | Mirror graph | Non split hop domination

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