Title

Non-Isolated Resolving Number for Some Splitting Graphs.

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Abstract

Let G be a connected graph. Let W = {w1,w2, ...,wk} be a subset of V with an order imposed on it. For any vertex v ∈ V, the vector r(v|W) = (d(v,w1), d(v,w2), ..., d(v,wk)) is called the metric representation of v with respect to W. If distinct vertices in V have distinct metric representation, then W is called a resolving set of G. The minimum cardinality of a resolving set of G is called the metric dimension of G and it is denoted by dim(G). A resolving set W is called a non-isolated resolving set if the induced sub graph hWi has no isolated vertices. The minimum cardinality of a non-isolated resolving set of G is called the non-isolated resolving number of G and is denoted by nr(G). In this paper, we determine the non-isolated resolving number for the splitting graph of some standard graphs.

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