RELATION BETWEEN RESOLVING SET AND DOMINATING SETS IN VARIOUS GRAPHS

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Abstract

In a graph $G = (V, E)$, the code of vertex v with respect to the ordered set $W = \{w_1, w_2, w_3, \ldots, w_k\} \subseteq V(G)$ is defined by $C_w(v) = (d(v, w_1), d(v, w_2), d(v, w_k))$. The set W is so-called a resolving set for G if different nodes have different codes with respect to W. A resolving set having a minimum number of nodes is a minimum resolving set or a basis for G. The (metric) dimension $G = (V, E)$. is the quantity of nodes in a basis for $G = (V, E)$. In this