

عنوان مقاله:

Global minus domination in graphs

محل انتشار:

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خلاصه مقاله:

A function $f: V(G) \rightarrow \{-1, 0, 1\}$ is a minus dominating function if for every vertex $v \in V(G)$, $\sum_{u \in N[v]} f(u) \geq 1$. A minus dominating function f of G is called a global minus dominating function if f is also a minus dominating function of the complement $\overline{G}$ of G . The global minus domination number $\gamma_g^-(G)$ of G is defined as $\gamma_g^-(G) = \min\{\sum_{v \in V(G)} f(v) \mid f \text{ is a global minus dominating function of } G\}$. In this paper we initiate the study of the global minus domination number in graphs and we establish lower and upper bounds for the global minus domination number.

کلمات کلیدی:

minus dominating function, minus domination number, global minus dominating function, global minus domination number

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