Global Domination Critical and Stable Graphs

Elizabeth Harris*, Teresa W. Haynes, East Tennessee State University

A set $S$ of vertices in a graph $G$ is a global dominating set of $G$ if $S$ is a dominating set for both $G$ and its complement $\overline{G}$. The minimum cardinality of a global dominating set of $G$ is the global domination number of $G$. In this talk we present values for the global domination number of specific families of graphs as well as bounds on the global domination number.

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