

## Vertex-Cut Domination in Graphs

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A dominating set  $S$  of a graph  $G = (V, E)$  is a *vertex cut dominating set* if  $V - S$  is disconnected or a  $K_1$ . The *vertex cut domination number*  $\gamma_{vc}(G)$  is the minimum cardinality of a vertex cut dominating set of  $G$ . In this paper we study this new parameter and its relationships with other parameters of a graph.

Keywords: domination, vertex cut, connectivity