## On the domination number of some graphs.


#### Abstract

Let $\mathrm{G}=(\mathrm{V}, \mathrm{E})$ be a simple graph. A set $\mathrm{S} \subseteq \mathrm{V}$ is a dominating set of graph G , if every vertex in $V-S$ is adjacent to at least one vertex in $S$. The domination number $\gamma(\mathrm{G})$ is the minimum cardinality of a dominating set in $G$. It is well known that if e $\in E(G)$, then $\gamma(\mathrm{G}-\mathrm{e})-1 \leq \gamma(\mathrm{G})$ $\leq \gamma(\mathrm{G}-\mathrm{e})$. In this paper, as an application of this inequality, we obtain the domination number of some certain graphs.


Keyword: Domination number; Dominating set; Graph.

