On the domination number of some graphs.

ABSTRACT

Let G = (V,E) be a simple graph. A set $S \subseteq V$ 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 $\gamma(G)$ is the minimum cardinality of a dominating set in G. It is well known that if $e \in E(G)$, then $\gamma(G-e)-1 \le \gamma(G)$ $\leq \gamma$ (G–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.