Abstract

Number Theory is one of the oldest branches of mathematics, which inherited rich contributions from almost all greatest mathematicians, ancient and modern. Nathanson [1] was the pioneer in introducing the concepts of Number Theory, particularly, the Theory of Congruences in Graph Theory, and paved the way for the emergence of a new class of graphs, namely Arithmetic Graphs. Inspired by the interplay between Number Theory and Graph Theory several researchers in recent times are carrying out extensive studies on various Arithmetic graphs in which adjacency between vertices is defined through various arithmetic functions. Cayley Graphs are another class of graphs associated with elements of a group. If this group is associated with some Arithmetic function then the Cayley graph becomes an Arithmetic graph and in this paper we study the Efficient domination, Clique domination parameters of Arithmetic Vn Graphs.

References

Some Domination Parameters of Arithmetic Vn Graph


Index Terms

Computer Science Applied Mathematics

Keywords

Arithmetic Vn Graphs Efficient domination Dominating clique Cayley Graph.