Abstract

Graph labeling is an important area of research in Graph theory. There are many kinds of graph labeling such as Graceful labeling, Magic labeling, Prime labeling, and other different labeling techniques. In this paper the Prime labeling of certain classes of graphs are discussed. It is of interest to note that H-graph which is a 3-regular graph satisfy Prime labeling. A Gear graph is a graph obtained from Wheel graph, with a vertex added between each pair of adjacent vertices of an outer cycle. It is proved in general this graph is Prime. Yet another class of graphs is the Sunflower graph and corona of Cycle graph C_n and K_{1,3}. A stepwise algorithm is given to prove that both these classes of graphs satisfy Prime labeling.

References

- Ramya, N. Rangarajan, K. and Sattanathan, R. 4-regular graphs and its Prime labeling, IJCGTA, accepted for publication.

**Index Terms**

Computer Science  
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**Keywords**

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