PAIR $L(2, 1)$-LABELINGS OF INFINITE GRAPHS

ROGER K. YEH

Department of Applied Mathematics
Feng Chia University
Taichung 40724
Taiwan

e-mail: rkyeh@math.fcu.edu.tw

Abstract

An $L(2, 1)$-labeling of a graph $G = (V, E)$ is an assignment of non-negative integers to $V$ such that two adjacent vertices must receive numbers (labels) at least two apart and further, if two vertices are in distance 2 then they receive distinct labels. This article studies a generalization of the $L(2, 1)$-labeling. We assign sets with at least one element to vertices of $G$ under some conditions.

Keywords: $L(2, 1)$-labeling.

2010 Mathematics Subject Classification: 05C15, 05C78, 05C63.
REFERENCES


Received 14 November 2016
Revised 24 July 2017
Accepted 24 July 2017