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

ROGER K. YEH

Department of Applied Mathematics
Peng 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