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Prime Cordial Labeling of Some Graphs

Sasikala A.^a ; Sekar C.^b ; Gayathri K.^c

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^a Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, India

^b Department of Mathematics, Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, India

^c Aditanar College of Arts and Science, Tamilnadu, Tiruchendur, India

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Abstract

A bijection from the vertex set V of a graph G to $1, 2, \dots, |V|$ is called a prime cordial labeling of G if each edge uv is assigned the label 1 if $\gcd(f(u), f(v)) = 1$ and 0 if $\gcd(f(u), f(v)) > 1$, where the number of edges labeled with 0 and the number of edges labeled with 1 differ at most by one. In this paper we prove that 8-polygonal snake containing n number of 8-polygon, Splitting graph of C_n for $n \geq 5$ and Armed Crown $C_2^k P_m$ for all $k \geq 3$ and $m \geq 2$ admit prime cordial labeling. © Published under licence by IOP Publishing Ltd.

Author keywords

8- polygonal snake; armed crown.; cordial labeling; Graph labeling; prime cordial labeling; prime labeling; splitting graph

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