

Odd Cyclic Cordial Friendship Graphs

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For a graph G and an abelian group A , a labeling of the vertices of G induces a labeling of the edges via the sum of adjacent vertex labels. It is A -cordial when both the vertex and edge labels are as evenly distributed as possible. This talk looks at \mathbb{Z}_m -cordiality of the friendship graph F_n . The most general result shows that when m is an odd multiple of 3, then F_n is \mathbb{Z}_m -cordial for all n . We also give a general conjecture for when F_n is \mathbb{Z}_m -cordial.

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