

عنوان مقاله:

On the first and second Zagreb indices of quasi unicyclic graphs

محل انتشار:

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خلاصه مقاله:

Let G be a simple graph. The graph G is called a quasi unicyclic graph if there exists a vertex $x \in V(G)$ such that $G-x$ is a connected graph with a unique cycle. Moreover, the first and the second Zagreb indices of G denoted by $M_1(G)$ and $M_2(G)$, are the sum of $\deg^2(u)$ overall vertices u in G and the sum of $\deg(u)\deg(v)$ of all edges uv of G , respectively. The first and the second Zagreb indices are defined relative to the degree of vertices. In this paper, sharp upper and lower bounds for the first and the second Zagreb indices of quasi unicyclic graphs are given.

کلمات کلیدی:

First Zagreb index, Second Zagreb index, Quasi Unicyclic graphs

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