



Power Mean Labeling of some Standard Graphs

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Abstract: A graph $G = (V, E)$ is called a Power mean graph with p vertices and q edges, if it is possible to label the vertices $x \in V$ with distinct elements $f(x)$ from $1, 2, 3, \dots, q + 1$ in such way that when each edge $e = uv$ is labeled with

$$f(e = uv) = (f(u)^f(v) f(v)^f(u)) \frac{1}{f(u) + f(v)}$$

or

$$f(e = uv) = (f(u) f(v) f(v) f(u)) \frac{1}{f(u) + f(v)}$$

then the edge labels are distinct. Here f is called Power mean labeling of G . We investigate on Power mean graph labeling on some standard graphs.

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