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On the uniqueness of the chromatic polynomials of generalized wheel graphs. (Chinese. English summary) [Zbl 0774.05038](#)

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Summary: We prove that the generalized wheel graph $\theta_{n,k}$ is chromatically unique if $k \geq 0$ and $n \geq 4$ is even. Meanwhile, it also has been proved that for a graph G we have $P_\lambda(G) = \lambda \cdots (\lambda - q + 1)(\lambda - q)^{n-q}$ if and only if G is a q -tree on n vertices.

MSC:

05C15 Coloring of graphs and hypergraphs

Cited in 4 Documents

Keywords:

chromatic polynomial; wheel graphs; chromatically unique graphs