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Chromatic uniqueness of complementary graphs of P_{q-1} . (Chinese. English summary)

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Summary: Let $P(G, \lambda)$ denote the chromatic polynomial of a graph G . Then G is said to be chromatically unique if $P(H, \lambda) = P(G, \lambda)$ implies that H is isomorphic to G . Let P_n denote the path with n vertices, \overline{G} denote the complementary graph of G . We prove that $\overline{P_{q-1}}$ is chromatically unique if $q > 5$ is a prime number.

MSC:

05C15 Coloring of graphs and hypergraphs

Cited in 2 Documents

Keywords:

chromatic polynomial; chromatically unique