

On the chromaticity of complete multipartite graphs with certain edges added

ABSTRACT

Let $P(G; \lambda)$ be the chromatic polynomial of a graph G . A graph G is chromatically unique if for any graph H , $P(H; \lambda) = P(G; \lambda)$ implies H is isomorphic to G . For integers $k \geq 0$, $t \geq 2$, denote by $K_{t, t, \dots, t}$

Keyword: Multipartite graph, Chromatic polynomial, Chromatic equivalence and uniqueness