## Chromatic equivalence classes of certain generalized polygon trees


#### Abstract

Let $\mathrm{P}(\mathrm{G})$ denote the chromatic polynomial of a graph G . Two graphs G and H are chromatically equivalent, written $\mathrm{G} \sim \mathrm{H}$, if $\mathrm{P}(\mathrm{G})=\mathrm{P}(\mathrm{H})$. Let g denote the family of all generalized polygon trees with three interior regions. Xu (1994) showed that g is a union of chromatic equivalence classes under the equivalence relation ' $\sim$ '. In this paper, we determine infinitely many chromatic equivalence classes in g under ' $\sim$ '. As a byproduct, we obtain a family of chromatically unique graphs established by Peng (1995).


Keyword: Chromatic equivalence; Generalized polygon trees

