

STAR COLORING OUTERPLANAR BIPARTITE GRAPHS

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Abstract

A proper coloring of the vertices of a graph is called a *star coloring* if at least three colors are used on every 4-vertex path. We show that all outerplanar bipartite graphs can be star colored using only five colors and construct the smallest known example that requires five colors.

Keywords: chromatic number, star coloring, outerplanar bipartite graph.

2010 Mathematics Subject Classification: 05C15.

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Received 7 August 2014
Revised 19 December 2017
Accepted 20 December 2017