Discussiones Mathematicae
Graph Theory 34 (2014) 635–640
doi:10.7151/dmgt.1732

Note

ON THE ERDŐS-GYÁRFÁS CONJECTURE IN CLAW-FREE GRAPHS

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Abstract

The Erdős-Gyárfás conjecture states that every graph with minimum degree at least three has a cycle whose length is a power of 2. Since this conjecture has proven to be far from reach, Hobbs asked if the Erdős-Gyárfás conjecture holds in claw-free graphs. In this paper, we obtain some results on this question, in particular for cubic claw-free graphs.

Keywords: Erdős-Gyárfás conjecture, claw-free graphs, cycles.

2010 Mathematics Subject Classification: C5038, C5038.

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doi:10.1002/jgt.20072

Received 29 August 2012
Revised 6 February 2013
Accepted 6 February 2013