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Three-coloring planar graphs without short cycles. (English) Zbl 1185.05057

Summary: We prove that every planar graph without cycles of length 4, 6, 7 and 9 is 3-colorable.

MSC:
05C15 Coloring of graphs and hypergraphs
05C10 Planar graphs; geometric and topological aspects of graph theory
68R10 Graph theory (including graph drawing) in computer science

Keywords:
coloring; planar graph; without odd cycles

Full Text: DOI

References:

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