

Abbott, H. L.; Zhou, B.

On small faces in 4-critical planar graphs. (English) [Zbl 0755.05062](#)

Ars Comb. 32, 203-207 (1991).

Summary: It is shown that a 4-critical planar graph must contain a cycle of length 4 or 5 or a face of size k , where $6 \leq k \leq 11$.

MSC:

[05C38](#) Paths and cycles

Cited in **1** Review
Cited in **37** Documents

Keywords:

small faces; planar graphs; cycle