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论文

# 正则图的环边连通性和环连通性之间的关系

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摘要：

研究了一般3 正则连通图G的环边连通性和环连通性之间的关系,证明了G的环边连通度等于其环连通度。讨论了G的环连通度与环点连通度之间的关系,指出当G的顶点个数不少于其环连通度的6倍时,其环连通度等于其环点连通度。

关键词： 3 正则连通图; 环边连通度; 环连通度; 环点连通度

# The relation between cyclic edge connectivity and cyclic connectivity of 3 regular connected graphs

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Abstract:

The relation between cyclic edge connectivity and cyclic connectivity of a 3 regular connected graph G is studied. It is proved that the cyclic edge connectivity of G is equal to its cyclic connectivity. Further, the relation between the cyclic connectivity and the cyclic vertex connectivity of G is discussed. It is shown that if the vertex number of G is more than 6 times its cyclic connectivity, then its cyclic connectivity is equal to its cyclic vertex connectivity.

Keywords: 3 regular connected graph; cyclic edge connectivity; cyclic connectivity; cyclic vertex connectivity

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