问题与反馈

2014/11/21

5.4

- Prove that if v is a cut-vertex of a graph G, then v is not a cut-vertex of the complement G’ of G.

5.10

- Prove that a connected graph G of size at least 2 is nonseparable if and only if any two adjacent edges of G lie on a common cycle of G.

5.12

- If a connected graph G contains 3 blocks and k cut-vertices, what are the possible values for k?

5.22

- Prove that if G is a k-connected graph and e is an edge of G then G-e is (k-1) connected.
- Prove that if G is a k-edge-connected graph and e is an edge of G, then G-e is (k-1)-edge-connected.

5.26

- Prove that if G is a graph of order n such that δ (G) >= (n-1)/2, then λ (G) = δ (G).

5.34

- Prove Corollary 5.18: Let G be a k-connected graph and Let S be any set of k vertices. If a graph H is obtained from G by adding a new vertex w and joining w to the vertices of S, then H is also k-connected.