

讨论与反馈

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6.4

- Giving examples on G and G 's complement.
 - Both G and G' are Eulerian
 - G is Eulerian, but G' is not
 - Neither G nor G' is Eulerian and Both contain an Eulerian trail.
 - Neither G nor G' is Eulerian, but G contains an Eulerian trail and G' does not.
 - G contains an Eulerian trail and an edge e such that $G-e$ is Eulerian.

6.6

- Let G be a connected regular graph that is not Eulerian. Prove that if G' is connected, then G' is Eulerian.

6.10

- Let G be a 6-regular graph of order 10 and let u, v are vertices. Prove that G , $G-v$ and $G-v-u$ are all Hamiltonian.

6.12

- Let G be a 3-regular graph of order 12 and H be a 4-regular graph of order 11.
 - Is $G+H$ Eulerian?
 - Is $G+H$ Hamiltonian?

6.20

- Let G be a graph of order ≥ 3 having the property that for each v , there is a Hamiltonian path with initial vertex v . Show that G is 2-connected (connected, order ≥ 3 , and no cut vertices) but not necessarily Hamiltonian.

