

Name

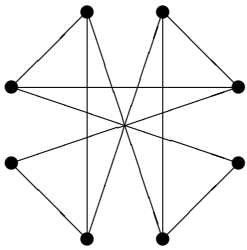
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1. There exists a graph with degree sequence $(5, 5, 4, 3, 3, 3, 3)$
2. There exists a graph with degree sequence $(5, 5, 5, 4, 3, 2)$	
3. Graph G has Euler tour	
4. Graph G has Hamilton cycle	
5. Graph G is 2-connected	
6. Graph G is 2-edge-connected	
7. There is no two non-isomorphic trees with degree sequence $(3, 2, 1, 1, 1, 1, 1)$	
8. There exists a connected graph, such that its complement is connected	
9. In every graph on at least 3 vertices there is at least 3 vertices, that are not cut-vertices	
10. If graph G has Hamilton cycle then G is 2-connected	

11. Show that if each vertex in G is on even degree, then G has no bridge.

12. Prove that if G is self-complementary and G is a tree then $e(G) = 3$.

G



Name

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1. There exists a graph with degree sequence $(5, 5, 5, 3, 2, 2)$
2. There exists a graph with degree sequence $(5, 5, 4, 4, 3, 3)$	
3. Graph G has Euler tour	
4. Graph G has Hamilton cycle	
5. Graph G is 2-connected	
6. Graph G is 1-edge-connected	
7. There is no two non-isomorphic trees with degree sequence $(3, 2, 2, 1, 1, 1)$	
8. There exists a disconnected graph, such that its complement is disconnected	
9. In every graph on at least 2 vertices there is at least 2 vertices, that are not cut-vertices	
10. If graph G has Euler tour then G is 2-connected	

11. Show that if G is k -edge connected, then $e(G) \geq \frac{k}{2}|G|$.

12. G is self-complementary and k -regular. Calculate k .

G

