

Name .....

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1. Graph $G_1$ has an Euler tour	....
2. Graph $G_1$ has a Hamilton cycle	
3. $\kappa(G_1) =$	
4. $\kappa'(G_1) =$	
5. $\chi'(G_1) =$	
6. $G_1$ is bipartite	
7. If $\kappa(G) \geq \frac{ G }{3}$ then $G$ is hamiltonian	
8. If $G$ is connected regular graph than $G$ is eulerian or hamiltonian	
9. For any graph $G$ $\kappa(G) \leq \chi'(G)$	
10. For every eulerian 2-connected graph $G$ $\chi(G) = \Delta(G)$	

11. Let  $T$  be a tree with every vertex, that is not a leaf, of degree 3. Prove or disprove:  $T$  has even number of the vertices.

12. Prove or disprove: if  $\kappa(G) = 1$  then  $e(G) \geq (\delta(G))^2$ .