SC205- Discrete Mathematics

Home Work 9

Tutorial Discussion Week: March 30, 2020

(1) Can a simple graph exist with 15 vertices each of degree 5?

(2) Draw these graphs: $K_7, K_{1,8}, K_{4,4}, C_7, W_7$.

(3) For which values of n are the graphs K_n, C_n, W_n bipartite?

(4) Represent the graphs $K_4, K_{2,3}, C_4, W_4$ with an adjacency matrix.

(5) For which values of n do the graphs K_n, C_n, W_n have an Euler circuit?

(6) For which values of n do the graphs K_n, C_n, W_n have a Hamilton circuit?