

Worksheet #18; date: 10/29/2018
MATH 55 Discrete Mathematics

1. Which of these graphs are bipartite:
 - (a) K_7
 - (b) $K_{1,8}$
 - (c) K_2
 - (d) C_7
 - (e) C_8
2. Does there exist a graph with degree sequence 5, 2, 2, 2, 2?
3. (*Rosen 10.2.41*) How many edges does a graph have if its degree sequence is 5, 2, 2, 2, 2, 1? Draw such a graph.
4. If the degree sequence of a simple graph G is 5, 2, 2, 2, 1, what is the degree sequence of \bar{G} ?
5. *True / False?* If a graph is bipartite, any of its subgraph is also bipartite.
6. *True / False?* If a graph is non-bipartite, any of its subgraph is also non-bipartite.