Homework #4
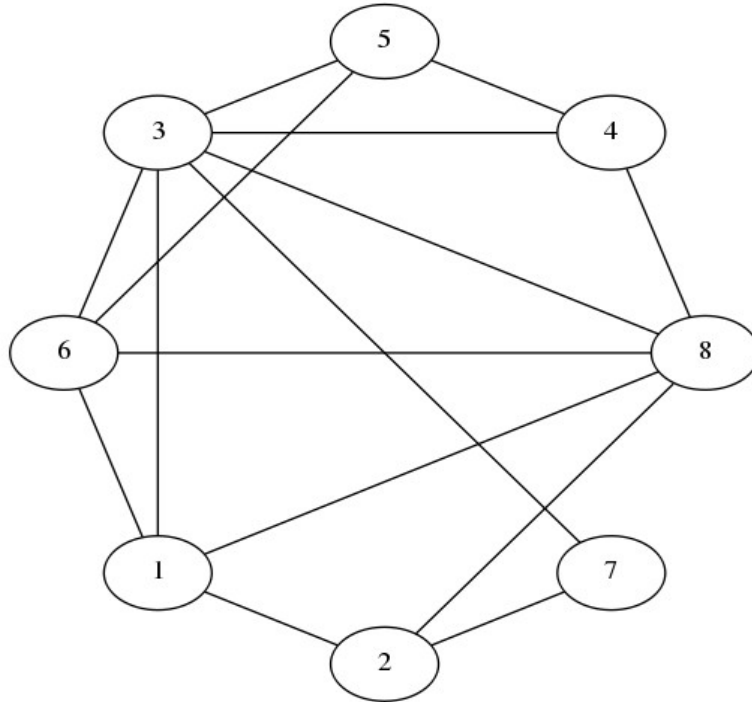
1) Construct a simple graph and write down it's adjacency matrix.

2) Given the degree sequence {2, 3, 3, 4, 4, 4}, construct a graph. How many edges does it have? How does this number relate to the sum of the degree sequence? Why is this?

3) Find the Characteristic Path length, Diameter, and Radius for the graph below.

4) Construct a graph (order at least 5) that is self complementary. A self complementary graph is a graph whose compliment is itself.