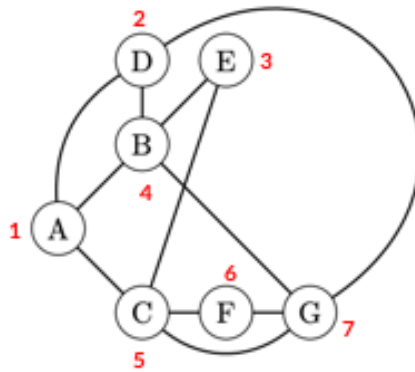# Worksheet 19 Solution

Hyungmo Gu
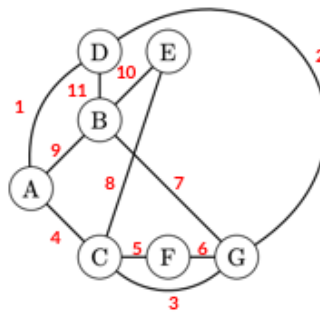
April 6, 2020

Question 1
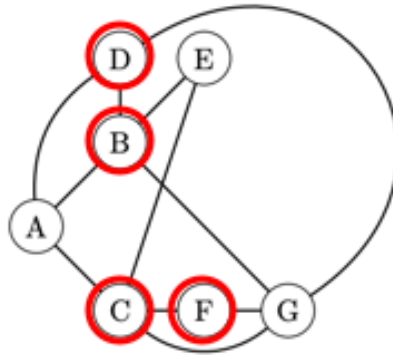
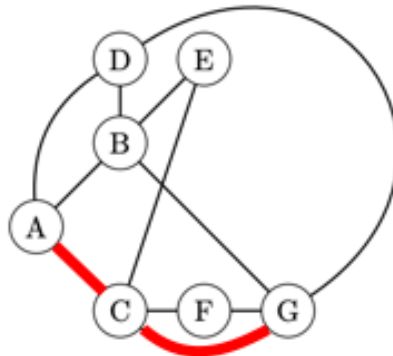a. By the figure below, we can conclude there are 7 vertices.

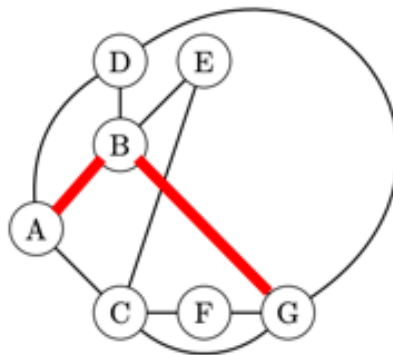b. By the figure below, we can conclude there are 11 edges.

c. By the figure below, we can conclude there are 4 vertices adjacent to G.

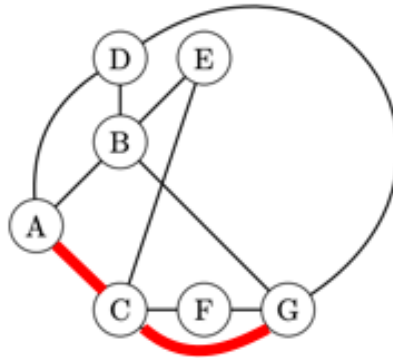d. By the figure below, we can conclude the distance between A ang G is 2.

There are 2 shortest paths between A and G. One is the path from A to C to G as shown above, and the other is the path from A to B to G

Correct Solution:

By the figure below, we can conclude the distance between A ang G is 2.

There are 3 shortest paths between A and G. One is the path from A to C to G as shown above, and the other is the path from A to B to G
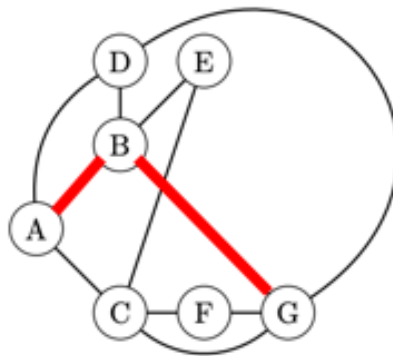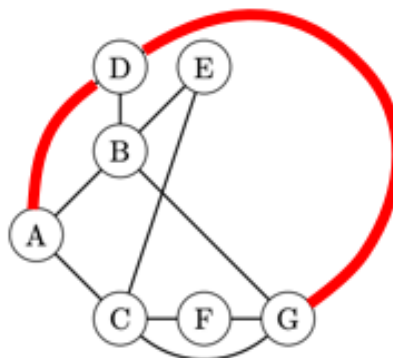

and the last one is from A to D to G

Question 2

Question 3