

Name:

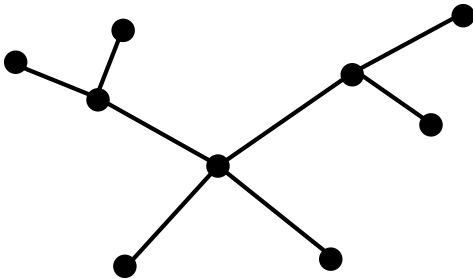
Date: Friday, August 26, 2016

**MATH 181 F1 Quiz #1**

**Directions:** You have 15 minutes for this quiz. Please write clearly and justify your answers.

**Question 1 (4 points):**

Consider the graph below.



- How many vertices does this graph have?
- How many edges does this graph have?
- Is this graph connected?
- List the valence of each vertex.

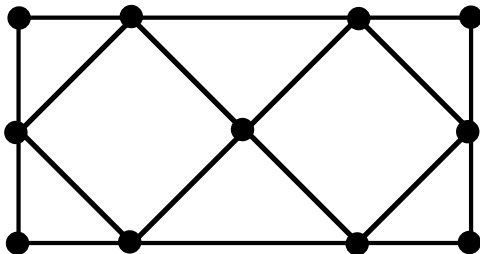
**Question 2 (6 points):**

**Determine whether the following graphs have an Euler circuit.**

If yes, then number the edges in the order an Euler circuit uses them.

If no, then explain why not.

a.)



b.)

