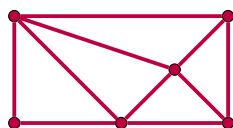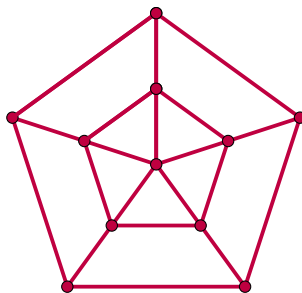# Math 1015: Homework #10

In all questions, please make your answers legible. Draw your pictures big enough so I can tell what you're doing.

**Question 1.** For each of these graphs, draw an Euler circuit or Euler path, or say why none exists.
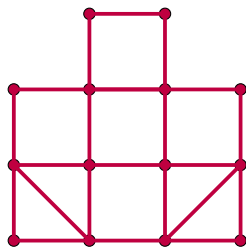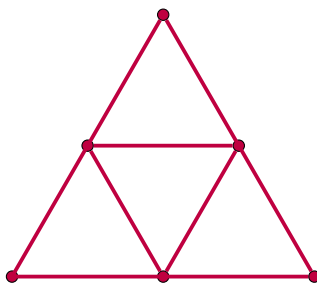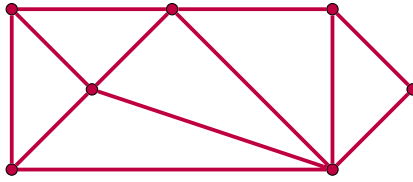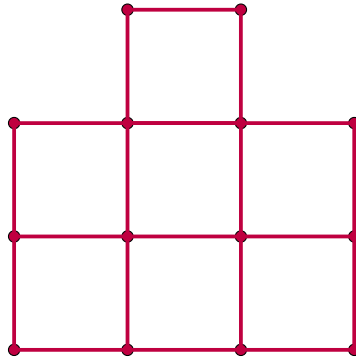
a)

b)

c)

d)

**Question 2.** For each part, please find a minimum duplication circuit, and a minimum duplication path:
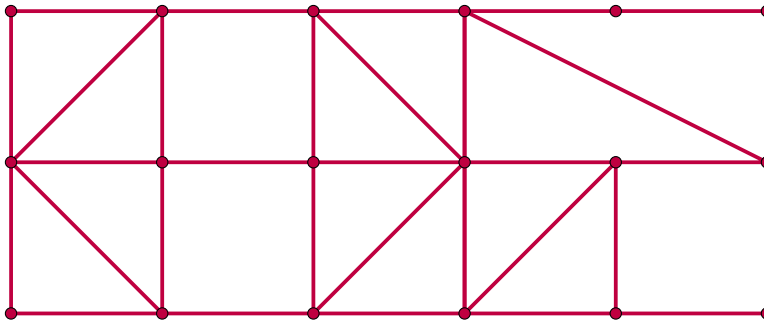
a)



b)



**Question 3.** Both parts are about this graph:



a) Please find an Euler path.

b) Please find a minimum duplication circuit.

c) Please explain why it's not very interesting to find a minimum duplication path, given what you've already done.