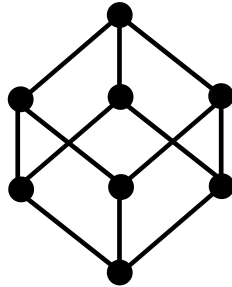Name: Date: Friday, September 2, 2016
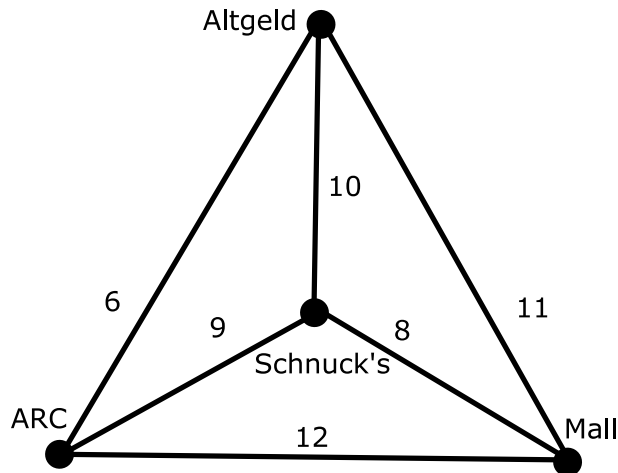
MATH 181 F1 Quiz #2

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

Question 1 (2 points): Consider the graph below and select one answer.

a.) This graph has an Euler circuit but no Hamiltonian circuit.
b.) This graph has Hamiltonian circuit but no Euler circuit.
c.) This graph has both an Euler circuit and a Hamiltonian circuit.
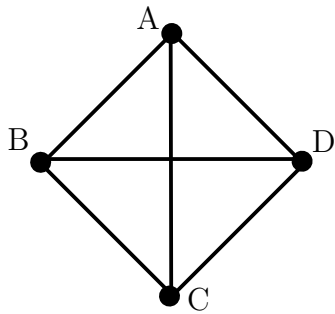d.) This graph has neither an Euler circuit nor a Hamiltonian circuit.

Question 2 (3 points): Find a minimum cost spanning tree.

More on the back.

Question 3 (5 points):

Use the method of trees to find all Hamiltonian circuits starting at A.

Draw three different Hamiltonian circuits starting at A.