

MAT 118 Spring 2017

**Homework #8**

Due Friday, 4/7/17 in class

*Please show all of the steps you take to solve the problems.*

*Also, write your recitation section number!*

Problems from the text: 6.2.2, 6.2.6, 6.2.16, 6.3.28, 6.3.36

In addition to those problems, please answer the following questions.

- A. Apply the Nearest Neighbor Algorithm (NNA) to the weighted graph below. You can draw your Hamilton circuit over the given graph. Indicate where you started and finished.
- B. What is the total weight of your resulting circuit?
- C. Apply the NNA again, but choose a different starting point. Either draw your new Hamilton circuit with a different color/shading, or draw a new graph for it.
- D. What is the new total weight, and how does it compare to the first answer above?

