Michael Delacruz

MET 440

**EXAM 1 Reflection** 

For this exam, it was essential to be able to differentiate the different modes of heat transfer and the basic laws associated with the different modes. It was also essential to apply the thermal circuit to solve problems.

For the first problem, my work leading up was very similar to the solutions. There was a problem when I was solving for the temperature of the absorber plate. It affected the rest of my answers. The heat collected by the water should have been in watts. This lack of awareness on my part led to a very different answer as even my units were off. The equation I used for the flow rate of water was also wrong. With the miscues coming late in the problem my efficiency was wrong as well. For the second problem, I used case A instead of case B. I also assumed a conductivity value and used excel to solve. This led to my answer being wrong from the start.

Based on the writing rubric and the correctness of my solution, I would give myself a 75.

From this test I learned how to utilize the tables and cases more efficiently. Engineers would probably use these concepts in design and testing products. I believe I will use these concepts in the HVAC field. I do believe the concepts I learn in this course will be important in my professional career. As of now, I have not been able to apply the concepts I have learned in other courses. However, I believe it will be able to apply it in other courses soon.