**Computer Survival Skills Report** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MCTC Chemistry Date of Exp. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Instructor Initials\_\_\_\_\_ Lab Section \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

v.1.6.22

**This experimental report is due before the next laboratory meeting.
Only calculations can be hand written.
All other answers must be typed for credit**

Answer the following questions. (Your answers in your words. No credit given for copied answers)

1. a. In Region 1, the temperature drops because heat is lost by the hot water. Where is hot water’s
 heat energy going?

b. How does the temperature change when heat energy is gained? What region on your graph corresponds to
 the water gaining heat energy?

c. If no ice is added in this experiment, what temperature will be eventually reached by the hot water
 if we wait long enough?

1. a. What are the slope values (include sign) for regions 1 & 3.

b. Explain why these slopes have different signs
 (The words “heat energy” and “temperature should be used in your answer).
2. How will regions #1 and #3 on your graph change if the experiment is conducted in a highly insulated
 Styrofoam cup instead of a beaker?
3. The temperature probe you used is only sensitive at its very tip. Knowing this, why is it important not to let the temperature probe touch the bottom or sides of the beaker while making temperature measurements?

1. Use rise/run to determine the units for the slope of a Temperature (oC) vs. Time (hour) graph.

***Include your graph as the last page of this report.***