

Name: \_\_\_\_\_

Section: \_\_\_\_\_

### **Data and Calculations for Experiment 3**

Use your graphs to answer the following questions. Note: The accepted freezing point of acetic acid, according to the *CRC Handbook of Chemistry and Physics*, is: 16.6 °C

1. a. What is the experimental freezing point of acetic acid in Trial 1? \_\_\_\_\_
- b. What is the experimental freezing point of acetic acid in Trial 2? \_\_\_\_\_
- c. Calculate the percent error in the Trial 1 measurement of the freezing point:

SHOW CALCULATION:

\_\_\_\_\_

2. What is supercooling? Did you observe supercooling in your experiment? Explain.
  
  
  
  
  
  
  
  
  
  
3. What is the difference between melting and freezing a substance?