I. Determining the latent heat of fusion:

B. Room temperature: ____________________

\[ m_c = \] ____________________

\[ m_c + \text{water}: \] ____________________

\[ m_w = \] ____________________

C. \[ T_{i,w} = \] ____________________

D. \[ T_f = \] ____________________

E. \[ m_c + \text{water (including melted ice)}: \] ____________________

\[ m_i = \] ____________________

F. Calculate \( L_f \) from your measurements. Show all steps and solve for your unknown first before you put numbers in.

\[ L_f = \] ____________________
II. Trial 2:

Room temperature: _________________________

\[ m_c = \] _________________________

\[ m_c + \text{water: } = \] _________________________

\[ m_w = \] _________________________

\[ T_{i,w} = \] _________________________

\[ T_f = \] _________________________

\[ m_c + \text{water (including melted ice): } = \] _________________________

\[ m_i = \] _________________________

Calculate \( L_f \) from your measurements. You can use the expression developed from part I.

\[ L_f = \] _________________________

III. Analysis

Average \( L_f = \) _________________________

Find the % difference.

Homework
Answer questions on a separate sheet.