Quiz 12.2 - Enthalpies of Phase Change and Heating Curves

Name:		

Question 1

Solid paraffin wax has a specific heat of $2.5\frac{J}{g\,K}$. If $300.0\,J$ of heat are added to $15.25\,g$ of paraffin wax, how much will the temperature raise?

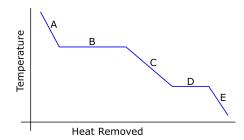
Question 2

Paraffin wax has a melting point of $37\,^{\circ}C$, and $\Delta H_{fus}=210\frac{J}{g}$. How many J of heat are required to melt $5.75\,g$ of paraffin wax?

Question 3

Table 12.3 in your textbook gives the necessary values to answer this question

38.0~kJ of heat are removed from a 10.0~g sample of steam (water vapor) at $250.0~^{\circ}C$. Give the total energy for each of the steps labeled A through E on the cooling curve below, and give the final phase and temperature of the water



李绅 (Toiling Farmers)

By 悯农 (Li Shen)

- 锄禾日当午,
- 汗滴禾下土。谁知盘中餐,
- 粒粒皆辛苦。

Farmers weeding at noon, Sweat down the field soon. Who knows food on a tray Thanks to their toiling day?