Phase Changes

Name	
1) A 30.0 g piece of ice is heated from -10.0 $^{\circ}$ C to the boiling point of water. How required to heat the ice, melt the ice, and then heat the water to boiling temperate	
2) A 89.0 g sample of water is heated from room temperature 23.0 $^{\circ}$ C to steam at much heat is added to accomplish this?	t 115.0 °C. How
3) A 10.0 g sample of steam is slowly cooled from a temperature of 105.0 $^{\circ}$ C to ic of -5.0 $^{\circ}$ C. How much heat is taken away from the steam to change it into the ice	
4) A calorimeter containing 64 g of water at an initial temperature of 24.0 $^{\circ}$ C has added to it. The water temperature rises to 30.2 $^{\circ}$ C. How much heat was absorb	
5) What is the frequency of a wave that has $5.72 \times 10^{-25} \text{J}$.	
6) Draw a wave that is 5 wavelengths long. Label the amplitude, wavelength, cre wave.	st and trough of the

Answers: 1) 23.2 kJ 3) - 32 kJ 5) 8.63 x 108 Hz Adv Chem