CHEM 36
General Chemistry
Quiz #2

February 1, 2002

Name:_____

1. In looking at the energetics of dissolution, we've considered three processes that must occur: disruption of solute-solute intermolecular forces (IMFs), disruption of solvent-solvent IMFs, and formation of solute-solvent IMFs. Which of these processes is *exothermic*; explain briefly.

2. Raoult's Law describes the effect of dissolved solute on the solvent vapor pressure above the solution. In one sentence, state Raoult's Law and sketch a plot of solvent vapor pressure versus solvent mole fraction.

3. Raoult's Law applies only to *ideal* solutions -- what is an *ideal* solution?