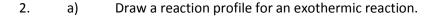
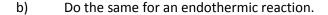
Chemistry Pretest 1.3

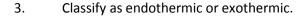
1. a) Draw two H₂O₂ molecules. Label all *intermolecular* and *intramolecular* bonds. How many intramolecular bonds are there for each molecule?



b) What kind of bond is formed when straightened-out egg protein molecules turn white during cooking?







- a) If a yellow straw turns blue when placed in ice but reverts to yellow when placed in warm water, then yellow → blue is ___
- b) A reaction where $\Delta H_{bb} > \Delta H_{BF}$
- c) A reaction with kJ among the reactants_____
- d) The electrolysis of water : $2H_2O \rightarrow 2H_2 + O_2$
- e) The condensation of alcohol on a cold glass
- f) A reaction in which $\Delta H = (-)$



"What kind of Bond" does not refer to the different Bond actors that've played the role.

4. a) What is the partial pressure of CO₂ if its concentration in a 100.0 kPa atmosphere is 396 ppm? Few people realize that when ppm is expressed for gases, it's not mg/L, as it is for aqueous solutions. Instead it's a mole fraction: $\frac{n_A}{n_T}$

The reason for this is that although there are a million mg of water in a 1 L of *liquid* water, 1 L of air does not weigh 1 million mg. So for air 396 ppm = **396 moles of CO2 per 1 000 000 moles of air**

b) How many grams of CO₂ would there be in 2.0 L of air with a 396 ppm CO₂ concentration at 30.0 C?

NO Flashback on this mini theory/ lab pretest.