Lecture 21 Problems

Problem 1

(a) Begin by writing the dissociation equation:

then

$$1.8 \cdot 10^{-5} = \frac{\chi^2}{(0.3-\chi)} \Rightarrow \chi = 0.0023$$

$$= COHJ \Rightarrow PH = 11.36$$

(b): Agtelho Writethe 2 issuciation equation

$$1.110^{-8} = \frac{\chi^2}{(0.54 - \chi)} \Rightarrow \chi = 7.7.10^{-5} \Rightarrow 11 = 9.89$$

- (a): Reactant 1 is the base and Product 1 is the consumption are lds
 Reactant 2 is the acld only Product 2 is the consumption base.
- (b): Some as (9)
- (c): Reactant 1 is an acid and Product 1 is its consugate dase

 Reactant 2 is aborse and Product 2 is its consugate acid