

**Ch. 15.3-15.5: pH; Strength of Acids and Bases; Begin Weak Acid Ionization Constants**

**Homework 15-2: Problems pg. 670-671 #13, 14, 18, 20, 25, 26, 29, 31, 33, 34, 35, 37**

**18 (a) pH = 10.74**

**(b) pH = 3.28**

**20 (a)  $[\text{H}^+] = 6.3 \times 10^{-6} \text{ M}$**

**(b)  $[\text{H}^+] = 1.0 \times 10^{-16} \text{ M}$**

**(c)  $[\text{H}^+] = 2.7 \times 10^{-6} \text{ M}$**

**25 g NaOH =  $2.2 \times 10^{-3} \text{ g NaOH}$**

**26 pH = 0.118**