**HomeWork 9**

**Due Wednesday 10/21/15**

**Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_/7**

**1) In the Arrhenius model, a base is a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2) In the Bronsted model. A base is a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3) Write the hydrolysis reaction for HSiO3-:**

**4) Identify the acid (A), base (B) , conjugate acid (CA) and conjugate base (CB)**

**in the reaction below:**

**(2 pts)**

**H2PO3- + H2PO42- 🡪 H3PO3 + HPO43-**

**I am: \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_**

**5) In the Arrhenius model: Acid + Base🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_**

**6) In the Bronsted model: Acid + Base🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**