Acc. Honors Chemistry Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Conjugate Acids and Bases

Identify each acid, base, conjugate acid, and conjugate base.

1. HNO2  + H2O → H3O+ + NO2-

2. HBrO4  + H2O → H3O+ + BrO4-

3. H2O + S2- → HS- + OH-

4. HSO4- + H2O → SO42- + H3O+

5. H2O + HC2H3O2 → H3O+ + C2H3O2-

Complete the equation for each of the following acid-base reactions.

6. H2O + CH3COO - →

7. H2S + H2O →

8. NH3 + H2O →

9. H2SO4  + H2O →

10. H3PO4 + H2O →