Properties of Acids and Bases

- 1) Determine the Bronsted-Lowry acid/base pairs in the following equations, and identify which one in each pair is the acid and which is the base:
 - $H_2SO_4 + NaOH \rightarrow 2 H_2O + NaSO_4$
 - $HPO_4^{-2} + HBr \rightarrow H_2PO_4^{-1} + Br$
 - Ca(OH)₂ + 2 HNO₃ \rightarrow 2 H₂O + Ca(NO₃)₂
 - $H_2O + NH_3 \rightarrow NH_4^+ + OH^-$
 - $H_2O + HI \rightarrow H_3O^+ + I^-$
- 2) What is the difference between the Bronsted-Lowry and Arrhenius definition of a base?