**Acids and bases homework 3**

* Explain the two factors that will determine the strength of an acid
* Place the acids in order of increasing strength and explain your reasoning:
  + Hydrobromic acid, hydrochloric acid, hydrofluoric acid
  + Perchloric acid, hypochlorous acid, chloric acid, and chlorous acid
* Can the following be used interchangeably? Why?
  + Proton, protic, hydrogen ion, hydronium ion
* Define and give an example of monoprotic, diprotic, triprotic, polyprotic acid
* Give an example of successive ionization of polyprotic acid using phosphorous acid
* Is this statement true or false, explain.

“ hydrophosphoric acid is three times stronger than hydrofluoric acid, because it has

three hydrogens”

* What two factors determine the strength of a base?