CONCEPT: ARRHENIUS ACIDS AND BASES

- General definition of acids and bases was proposed by Swedish chemist Svante _____ in the 1800s.
 - □ Arrhenius Acid: compound that produces _____ when dissolved in water.

□ Arrhenius Base: compound that produces _____ when dissolved in water.

• Arrhenius definition of acids and bases is limited to _____ solutions.

EXAMPLE: Write a dissociation equation showing how HNO₃ and Al(OH)₃ act as Arrhenius acid and base, respectively.

PRACTICE: Out of the following compounds, which can only be an Arrhenius acid?

- a) NaCl
- b) Sr(OH)₂
- c) H₂O
- d) CH₃COOH
- e) NH₃

PRACTICE: Which of the following is an Arrhenius base?

- a) Mg(OH)₂
- b) BaO
- c) CH₃NH₂
- d) NH₄+
- e) H₂SO₄