General Chemistry Mr. MacGillivray Quiz #39: pH Calculations II

$$pH = -log[H_3O^+]$$

 $pOH = -log[OH^-]$
 $pOH + pH = 14$
 $[H_3O^+] \times [OH^-] = 1.00 \times 10^{-14} = K_w$

- 1. Write the chemical equation for the dissociation of Al(OH)₃ when it dissolves in water.
- 2. What is the [OH] of 0.00567 M Al $(OH)_3$ (aq)?

A 16.5 mL sample of 0.215 M NaOH required 30.3 mL of HCl solution to reach the endpoint of an acid-base titration.

- 3. Write the equation for the chemical reaction.
- 4. Calculate the molarity of the of the original HCl solution.