Chemistry – Chapter 19 Book problems #4: Neutralization calculations

- 1. How many moles of potassium hydroxide are needed to neutralize 1.56 mol of phosphoric acid?
- 2. How many moles of sodium hydroxide are required to neutralize 0.20 mol of nitric acid?
- 3. How many milliliters of 0.45 M HCl will neutralize 25.0 mL of 1.00 M KOH?
- 4. What is the molarity of a solution of H₃PO₄ if 15.0 mL is neutralized by 38.5 mL of 0.150 M NaOH?
- 5. How many moles of HCl are required to neutralize aqueous solutions of these bases?
 - A. 0.03 mol KOH
 - B. 2 mol NH₃
 - C. 0.1 mol Ca(OH)₂

6. What is the molarity of sodium hydroxide if 20.0 mL of the solution is neutralized by each of the following 1.00 M solutions?

- A. 28.0 mL HCl
- B. 17.4 mL H₃PO₄