

Chapter 11 – Acid-Base Titrations

Chapter 18 – Introduction to Spectrophotometry

Objectives and Problems

At the end of these chapters you should:

- Be able to create a titration curve for the titration of strong acid with a strong base
Exercise: 11-A,
Problems: 11-1, 11-2, 11-3
- Be able to create a titration curve for the titration of a weak acid with strong base
Exercise: 11-B, 11-D, 11-G, 11-H
Problems: 11-4, 11-5, 11-6, 11-7, 11-8, 11-9, 11-10, 11-11
- Be able to create a titration curve for the titration of a weak base with a strong acid
Exercise: 11-C
Problems: 11-12, 11-13, 11-14, 11-15, 11-16, 11-17, 11-18
- Be able to determine the appropriate pH indicator to be used in an acid-base titration
Exercise: 11-F, 11-K
Problems: 11-36, 11-37, 11-38, 11-39, 11-40, 11-41, 11-42, 11-43, 11-44, 11-45, 11-46, 11-47
- Understand the basic properties of light
Problems: 18-1, 18-2, 18-3, 18-4, 18-5
- Know how to measure absorbance
Exercise: 18-A, 18-B, 18-C
Problems: 18-6, 18-7, 18-8, 18-9, 18-10, 18-11
- Understand how Beer's Law is used in chemical analysis
Problems: 18-15, 18-16, 18-17, 18-18, 18-19

Problem Set #7 (you do NOT need to turn these in)

Exercise: 18-A, 18-B

Problems: 11-2, 11-6, 11-14, 11-43, 18-1, 18-6, 18-16