## Chapter 07.02

## **Trapezoidal Rule**

## **OBJECTIVES**

- 1. derive the trapezoidal rule of integration,
- 2. use the trapezoidal rule of integration to solve problems,
- 3. derive the multiple-segment trapezoidal rule of integration,
- 4. use the multiple-segment trapezoidal rule of integration to solve problems, and
- 5. derive the formula for the true error in the multiple-segment trapezoidal rule of integration.