

## **Chapter 07.03**

### **Simpson's 1/3 rd Rule**

#### **OBJECTIVES**

1. derive the formula for Simpson's 1/3 rule of integration,
2. use Simpson's 1/3 rule it to solve integrals,
3. develop the formula for multiple-segment Simpson's 1/3 rule of integration,
4. use multiple-segment Simpson's 1/3 rule of integration to solve integrals, and
5. derive the true error formula for multiple-segment Simpson's 1/3 rule.