Numerical Analysis

EIGHTH EDITION

Richard L. Burden

Youngstown State University

J. Douglas Faires

Youngstown State University



CHAPTER

2

Solutions of Equations in One Variable



Figure 2.1

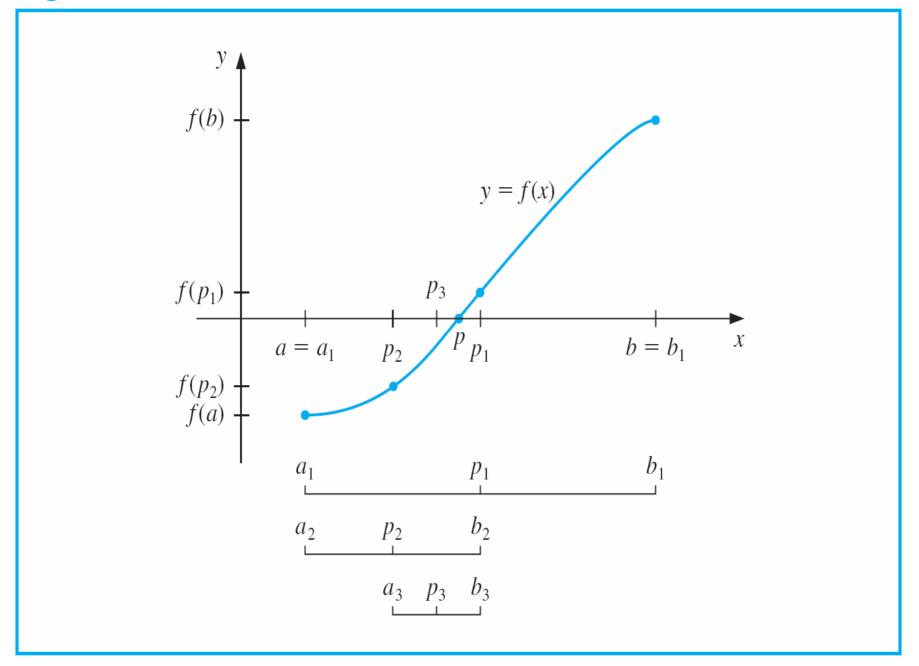


Figure 2.2

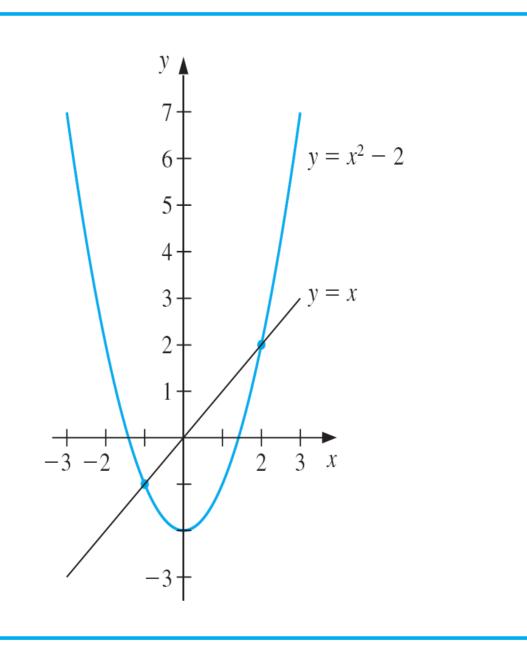


Figure 2.3

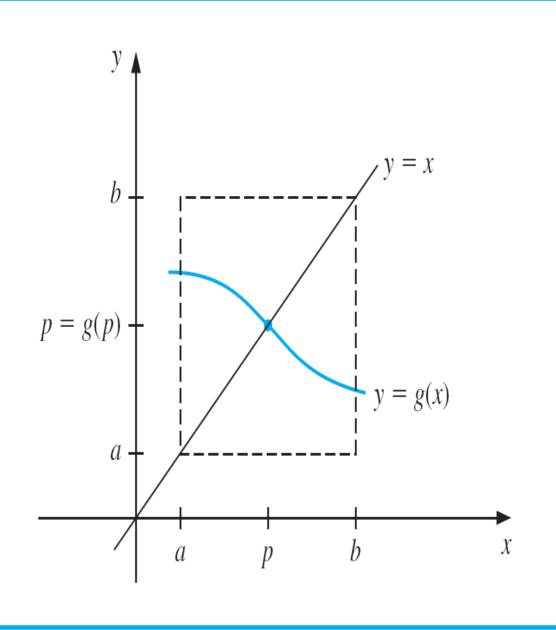


Figure 2.4

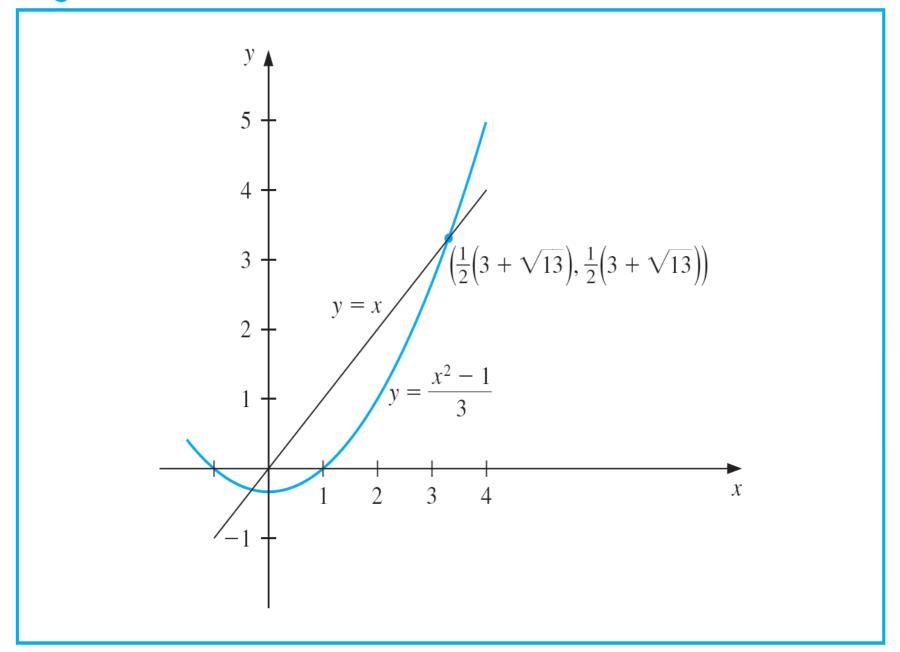


Figure 2.5

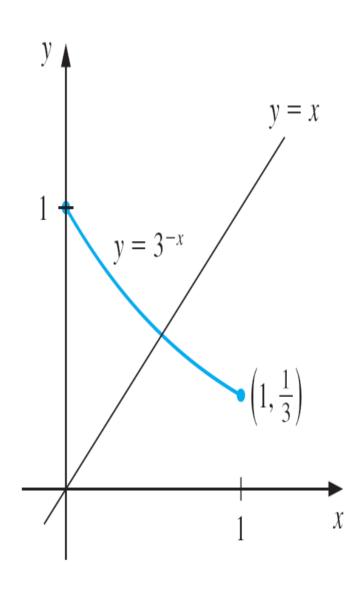


Figure 2.6

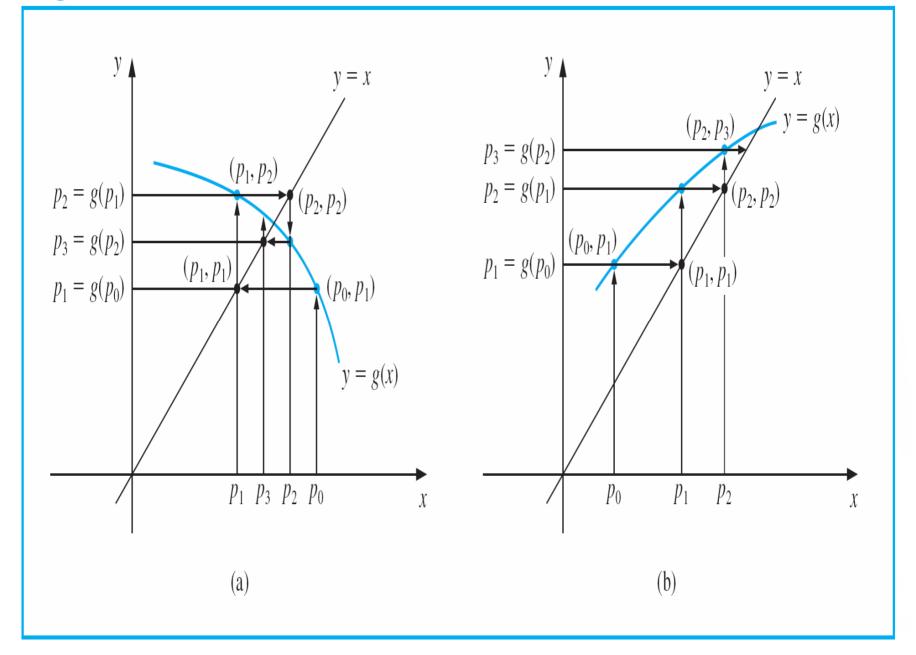


Figure 2.7

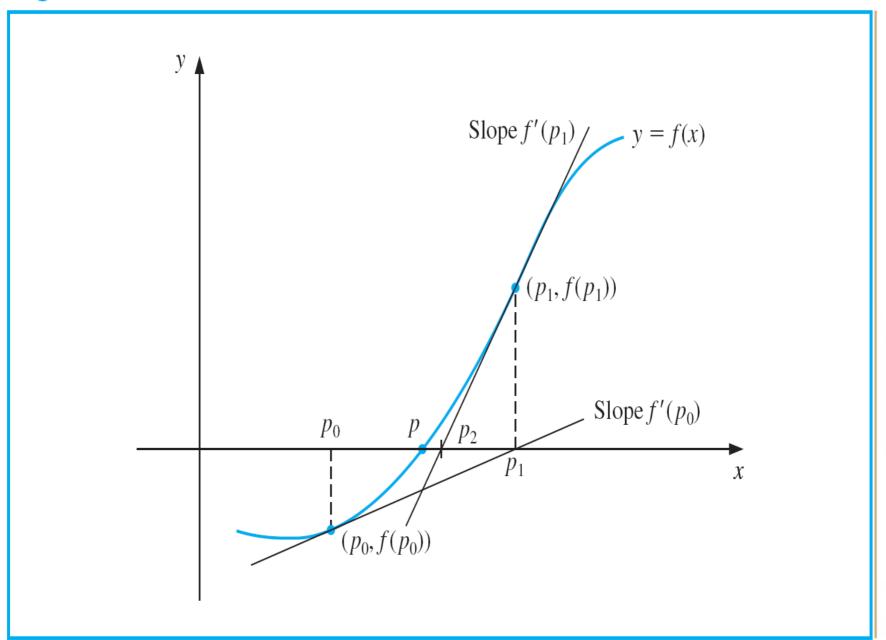
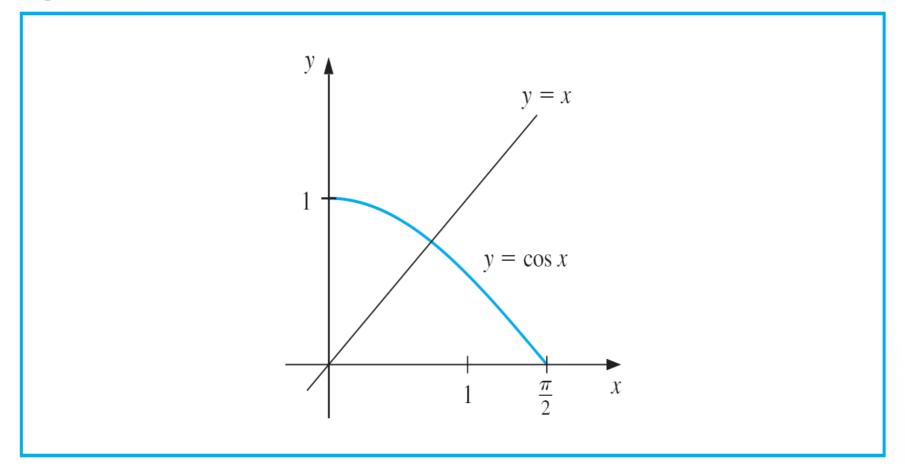


Figure 2.8



With $p_0 = \pi/4$, the approximations in Table 2.4 are generated. An excellent approximation is obtained with n = 3. We would expect this result to be accurate to the places listed because of the agreement of p_3 and p_4 .

Figure 2.9

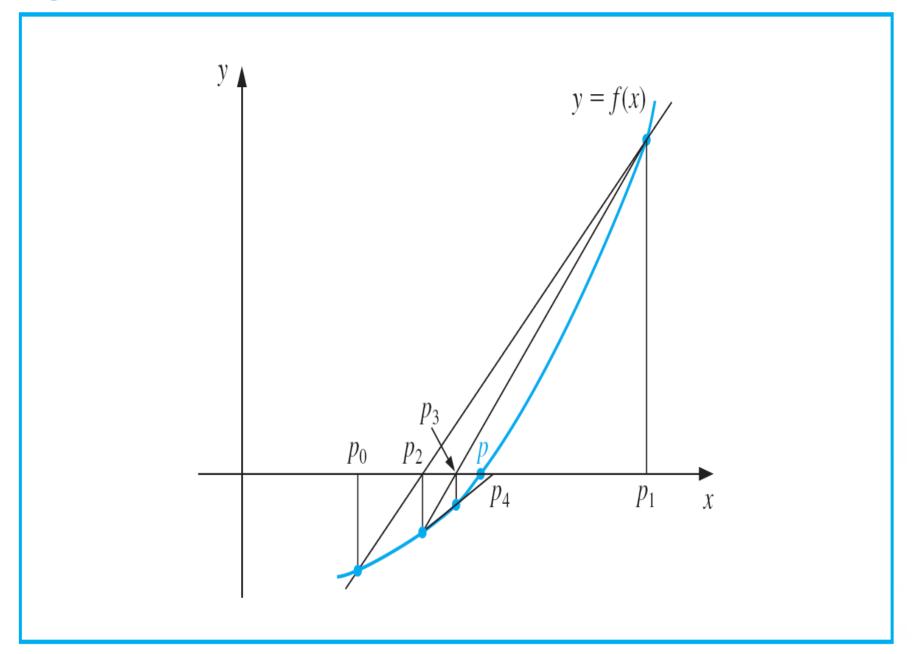


Figure 2.10

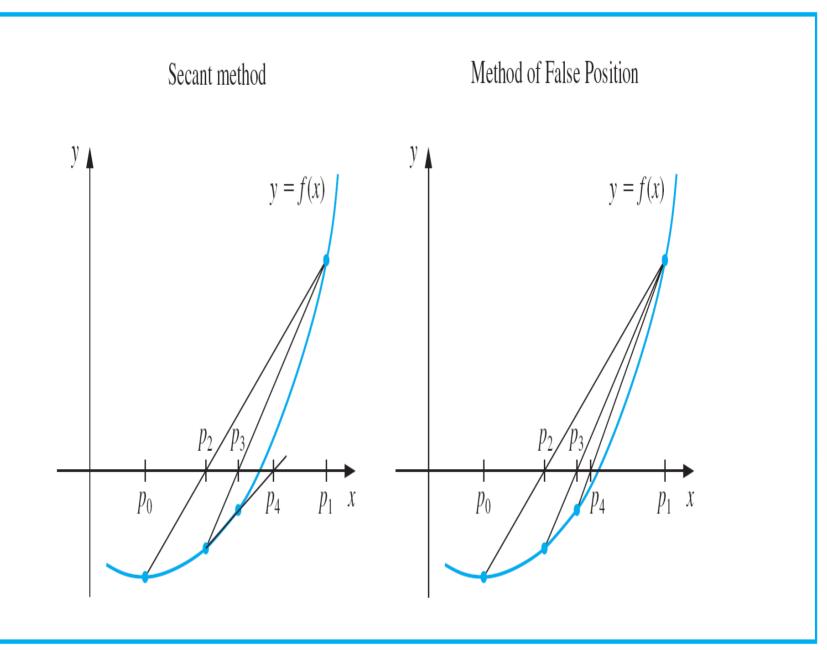


Figure 2.11

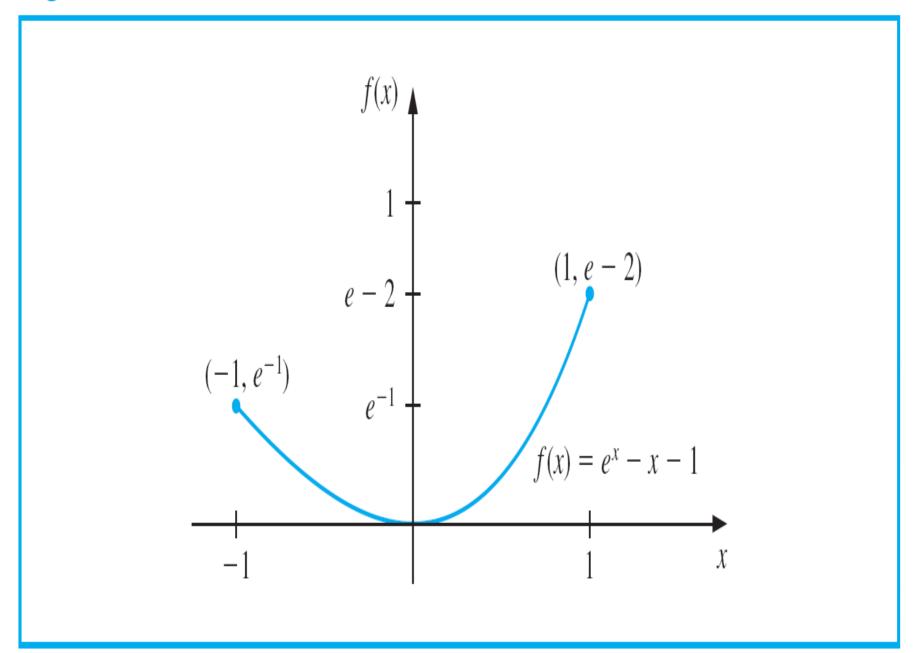


Figure 2.12

