Computer Problem 2. Each equation has one root. Use Newton's Method to approximate the root to eight correct decimal places.

(a) $x^5 + x = 1$

(b) $\sin x = 6x + 5$

(c) $\ln x + x^2 = 3$

In each case, generate a table similar to the one shown in the textbook on page 55. Also, check to see whether Theorem 1.11 applies and, if so, estimate the value of M using this theorem.

Solution.