

NUMERICAL ANALYSIS, MATH318, FALL 2009, SHEPHERD UNIVERSITY
ASSIGNMENT 2
DUE MONDAY, AUGUST 31, 2009

1. **Read and understand.** Chapter 2, Sections 1, 2, and 3
2. **Responsible.** You are responsible for being able to do problems
 - 1 - 17, 21, 22, 24 in Section 1.2
 - 1 - 9, 12 in Section 1.3
3. **Hand-in.** Be prepared to hand in problems
 - 2, 10, 12, 16, 22 in Section 1.2
 - 2a, 2d, 6, 8, 12 in Section 1.3
 - Pick your computer language/interpreter of choice.
Write a program that will find the roots of the quadratic equation $x^2 - 93.20x + 1 = 0$ using the quadratic formula.
Also calculate the roots using 5-digit arithmetic and using the quadratic formula. Compare and contrast your two methods.
Be sure you use the appropriate form(s) of the formula to give you an accurate representation.
Be prepared to hand in your code, your output, your hand work, and your comparison.