Homework 1
Due on Thursday, Sep 15

Problem 1: Exercise set 1.1: 1(a)(b), page 15 of the text

Problem 2: Exercise set 1.1: 5 (p15 of the text)

Problem 3: Exercise set 1.1: 9 (p15 of the text)

Problem 4: Exercise set 1.1: 25 (p17 of the text)

Problem 5: Exercise set 1.2: 11 (p27 of the text)

Problem 6: Exercise set 1.2: 15 (a)(b) (p27 of the text)

Problem 7: (Loss of significant digits) How to avoid the loss of significance error in computing $f(x) = \frac{\sqrt{1+x} - 1}{\sin x}$ for $x$ close to 0? Use $x = 1.234 \times 10^{-2}$ and a 4-digit decimal machine arithmetic to illustrate it.