# Physics 562 - Computational Physics

# Midterm 4

Josh Fernandes Department of Physics & Astronomy California State University Long Beach

May 6, 2014

#### Abstract

This paper examines two different questions.

#### 1 Problem 1

### 2 The Fortran95 code

Numtype is the same for problems 1 and 2.

Listing 1: Module NumType

The main program is **newton** and it begins with its own module. The code is run by typing ./newton.

#### 3 Problem 2

# 4 The Fortran95 code

Listing 2: mtestthisone.f95

# 5 Results

# References

[1] M. Metcalf, J. Reid and M. Cohen, Fortran 95/2003 explained. Oxford University Press, 2004.