

# Computation, Problem Set #1a, Numerical Differentiation, Integration, and Newton's Method

OSE Lab

Due Monday, July 8 at 11:00pm

Do the following Exercises from the Brigham Young University Applied Mathematics and Computational Emphasis (ACME) Python labs ? and from Richard Evans' notes.

1. **Exercises from [ACME: Numerical Differentiation lab](#).** Do problems 1, 2, 3, 5, 6 from [Numerical Differentiation lab](#).
2. **Exercises from [ACME: Newton's Method lab](#).** Do problems 1, 3, 4, and 7 from [Newton's Method lab](#).
3. **Exercises from [Evans: Numerical Integration lab](#).** Do exercises 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, and 4.1 from [Evans' Numerical Integration lab](#).