# Homework Assignment for Week 11

Assigned Nov 27, 2009. Due Dec 04, 2009.

1. Section 5.3: Problems 2(d,e,f), 9, 11.

   For problem 11 (b), just write down the equations for the unknowns and take the answer for granted. Need not verify it.

2. Section 5.4: Problems 6, 8, 10, 11.

   For problem 10: These formula, also known as one-sided difference, can be used to find approximate derivatives at the left end point $x_0$, given $f(x_0), f(x_1), \cdots, f(x_0)$. Also write down similar formula at $x_n$ by symmetry. Need not re-derive the formula there again.

   For problem 11, read section 5.4.3 first.

3. Challenge of the week: later.