Midterm A1 / A2 / B1 / B2
Section 4 / 2 / 4 / 2

November 8, 2014

Problem 2 / 3 [10pt]: Finish the following function. For input: f is a function so that $f(x_j)$ returns the value of **an** interpolating polynomial at x_j and x is a row vector of values. For output: y is a row vector of the values $f(x_j)$ for each element in x. Assume that $f(x_j)$ only accepts one value at a time.

function y = evaluateF(f, x)

    end

Okay. This is a *very* tricky problem. When I sat down to take this exam, I almost missed this one completely. In the previous problem, you either (a) found a Lagrangian polynomial named f or (b) you wrote the function $f(x)$ as a linear system. In any case, you've done a bunch of work to accurately describe $f(x)$ and now you're asked to