Wednesday 1 October - Class Session 11

Homework:
Read Budny: Sec 4.13, 4.14
Programming Assignment 5: Due Wednesday 8 October (Counts as 2 assignments)

Class Activities:

1. Create separate functions for plotting polynomial and spline fits to data. Each function has
   the following requirements
   needs: xdata, ydata, symbol, linetype
   results: coeff (polynomial coefficient vector if polynomial fit)
            splinecoef (spline coefficient matrix if spline fit)
   Each function is to do the following:
   delete unplottable data (if necessary)
   if polynomial fit
      ask user for degree of polynomial (must be <= length(xdata))
      determine appropriate fit to data
      create (xfit,yfit) set for line display
      display data points on graph as distinct data points
      display fit on graph

2. Modify your script from Class Activity 10 - 4 to:
   add polynomial and spline fits to possible fits

Group assignment:
Turn in a printed copy of your script from activity 2 and the polynomial fit function
from activity 1. Test your script by plotting the data contained in ca09dat.dat (available in
the get12 directory). Print and turn in the polynomial fit plot that looks like it best fits the
data.