

**MATH 226 - CS 255**  
**Homework assignment 4,**  
due October 10, 2005.

*Abiding by the Vanderbilt Honor Code, I pledge  
that I have neither given nor received unauthorized aid on this assignment.*

**Signature:** .....

1. Implement Algorithm 3.5 of your book (Clamped Cubic Spline). Use the code to construct the three cubic splines of problem 32 in your book (at the end of section 3.4).
2. Implement Algorithm 3.4 of your book (Free Cubic Spline). Use your code to construct appropriate cubic splines for the back of the Moonfish, in the picture Moonfish2.jpg. The choice of coordinates points  $(x_i, y_i)$ , for  $i = 1, \dots, n$  is yours, as long as they approximate the back of the fish.

In this homework you are expected to work within your assigned team.