ECS 278
Computer Aided Geometric Design
Problem Set #1

Due Date
Thursday, February 4, 2010

Problems

1. Given a set of control points \( p_0, p_1, \ldots, p_n \), calculate the uniform quadratic B-spline blending function \( N_{i,3}(t) \).

2. The control points \((0,0), (1,0), (1,1), (2,0), \) and \((6,0)\), and the knot vector \(0, 0, 0, 1, 2, 2, 2, 2\), define a cubic B-spline curve. Find the control points of the two Bezier curve segments that make up this B-spline curve.