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Selected Problem Set 7

1. Demonstrate that the B-Spline $N_{0,3}(t)$ is equal to the quadratic piecewise polynomial seen in class.
2. Identify and explain the two mechanisms at our disposal by which we can make a B-Spline interpolate a control point other than the first and last one.
3. What is the definition of the standard knot vector?
4. What are the two main problems we encounter while using Bezier curves instead of B-Splines?
5. Explicitly develop the cubic B-Spline polynomials $N_{0,4}(t)$.