Lecture 8: Curves – Review Questions

- Derive the expression for a Hermite spline as a function of its control points and normals.
- Write the matrix form for the Hermite spline (or Bezier spline, or B-spline).
- What is the geometry matrix for this spline?
- What are the blend functions?
- Describe Catmull-Rom splines and explain how they relate to Hermite splines.
- For Catmull-Rom splines, give an expression for the tangent to the spline at a control point. Explain the reasoning behind this choice of tangent.