

CS 323, Spring 2017, Summary 2

1. Bisection method and rate of convergence. Pages 14-17.
2. Newton's method. Page 18-19.
3. Linear interpolation. Pages 51-52.
4. First-order divided difference. Page 63.
5. P_1 expressed in terms of first-order divided difference. Page 67.
6. Approximation error of polynomial interpolation. Page 72. For example, what is the error when $n = 1$.
7. Natural cubic splines when $n = 3$ (data points). Pages 77-79.
8. General natural cubic splines. Page 81.