MA 428: Project 4: Hermite Interpolation

Reading: Section 5.7

Your presentation will focus on material on pages $405 - 410$. In your presentation, you should address the following questions

1. Clearly state the problem that the section is trying to solve. In this case we are looking at interpolation – remind the class of the definition of an interpolatant and the reason we need interpolants.

2. What is the diffrence between Hermite interpolation and the forms of the interpolating polynomials we have discussed in class.

3. Explain how the Hermite polynomial is obtained.

4. Reproduce the results shown in Figure 5.17.

5. What is the advantage of Hermite interpolation?