**Section 3.1**

**6. Use appropriate Lagrange interpolating polynomials of degrees one, two, and three to**

 **Approximate each of the following:**

 **d**$. f(0.25)$ **if** $f(-1)$ **= 0.86199480,** $f(- 0.5)$ **= 0.95802009,** $f (0) $**= 1.0986123**

$ f(0.5) =$ **1.2943767**

**Section 3.1**

**8. The data for Exercise 6 were generated using the following functions. Use the error**

 **formula to find a bound for the error and compare the bound to the actual error for the**

 **cases n = 1 and n = 2.**

 **d.** $ f\left(x\right)=ln\left(e^{x}+2\right)$

**Section 3.5**

**8. Construct the clamped cubic spline using the data of Exercise 4 and the fact that**

 **c.** $f^{'}\left(0.1\right)= -2.8004996$ **and** $f'(0.3)=-2.9734038$

**(hint find A0, B0, C0 D0, A1,B1,C1,D1) 8 answers total**

**Reference Exercise 4**

