1. (5 points)
   Do P2.1.1 from Textbook.

2. (5 points)
   Assume that L (scalar), R (scalar), and c(1:4) are given. Assume that L < R. Write a MATLAB function that computes \( a(1:4) \) so that if \( p(x) = a_1 + a_2 x + a_3 x^2 + a_4 x^3 \), then \( p(R) = c_1 \), \( p'(R) = c_2 \), \( p''(R) = c_3 \), and \( p(L) = c_4 \). Use \( \backslash \) (“mldivide”) to solve any linear system that arises in your method.