1. Use the bisection method to find a solution accurate to 0.01 of \( x^3 - 7x^2 + 14x - 6 = 0 \) on the interval \([0, 1]\). Use a calculator but not Matlab.

2. Write a Matlab code to implement the bisection method. (A sample code can be found from the class web page.) Use your code to solve Problem 5 of Exercise Set 2.1 of the textbook.

3. Solve Problem 12 of Exercise Set 2.1 of the textbook. You can use your Matlab code.

4. Solve Problem 15 of Exercise Set 2.1 of the textbook. You can use your Matlab code.

5. Solve Problem 1, Part (a) and Part (b), of Exercise Set 2.2 of the textbook.

6. Solve Problem 2, Part (a) and Part (b), of Exercise Set 2.2 of the textbook. You can use a calculator but not Matlab.

7. Write a Matlab code to implement the fixed-point iteration. Use the code to solve Problem 11, Parts (a)–(d), of Exercise Set 2.2 of the textbook.

8. Solve Problem 13 of Exercise Set 2.2 of the textbook. You can use your Matlab code.