APMA 1930M: Homework Assignment # 1

Due: 9/12/14

Problem 1 Algebraic Equations

For $0<\epsilon\ll 1$ find approximate solutions for the following equations:

- 1. $\epsilon x^3 (x-1)(x-2) = 0.$
- 2. $\epsilon x^3 (x-1)^2 = 0.$

Hint: Draw graphs.

Problem 2 Order Symbols

Complete exercises 1.1, 1.2, 1.3, 1.4 on page 6 of the text.