## Homework Assignment for Week 10

- 1. Section 4.2: Problems 5, 10, 12.
- 2. For section 4.2, problem 12, also show  $K_1 = 0$  alternatively by assuming the expansion

$$e = (\frac{2+h}{2-h})^{\frac{1}{h}} + C_1 h^{p_1} + \cdots$$

and find  $p_1$  numerically using N(h) with h = 0.02 and 0.01.

- 3. Section 4.3: Next week.
- 4. Section 4.4: Problems 7, 14, 23, 24, 26.

Problem 7 is a programming assignment. Make good use of the 'for' or 'do' loop in matlab/C, or the command 'sum' in matlab.