

Assignment 1

➤ Problems

1. Prove or find a counter-example:

$$\left(\frac{n}{3}\right)^n < n! < \left(\frac{n}{2}\right)^n, \quad \text{if } n \geq 6.$$

2. p. 8, Exercises (1.1) 5, 6.

3. p. 60, Exercises (2.2) 5, 6

4. p. 67, Exercises (2.3) 2, 4

5. p. 76, Exercises (2.4) 1, 3, 5

➤ Due date: September 20, 2007. In class