

Assignment 1

1. Study Example 3 on Page 3 in the text.
2. Attempt the following questions from the text:

<u>Page</u>	<u>Question(s)</u>
4–5	1.12
14	3.5, 3.6
19	4.7(b)
20	4.10, 4.12, 4.16
21	5.6

3. (i) Attempt the following parts of Question 4.1 on Page 19: (b), (e), (i), (h), (j), (k), (r), (w)
(ii) Attempt questions 4.2–4.4 for the parts given in (i) above.
4. Suppose that a and b are fixed real numbers. Prove that the following are equivalent:
 - (i) $a \leq b$.
 - (ii) $a < b + \epsilon$ for every $\epsilon > 0$.
5. Problem 4.14, page 20.