

MATH 302 Discrete Mathematics
Assignment 4. **Due on February 22, 2012**
6th Edition of the textbook

Read: Sections 1.5–1.7. Sections 2.1–2.2

Definition: Write down the definitions for the following terms. [5 points]

fallacy of affirming the conclusion

fallacy of denying the hypothesis

power set

Cartisian product of A and B , where A and B are given sets

the difference of A and B , where A and B are sets

Problems to be graded: [10 points]

§1.5/ 14, 20, 24, 27.

§1.6/ 9, 12, 17

§2.1/ 8,

§2.2/ 17, 20

Practice problems:

§1.5/ 3, 5, 9, 10, 15, 19, 23, 29.

§1.6/ 7, 11, 15, 16.

§2.1/ 3, 5, 7, 9, 15, 16, 18, 21, 29, 34.

§2.2/14, 16, 19, 26, 29, 31, 45, 46, 48, 49