MATH 174 Class Notes

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1   Chapter 1

1.1   1.1

1.2   1.2

$$A \ast B = (a,b) \mid a \in A \text{ and } b \in B$$

note:

$$A \ast B = B \ast A$$

1.2.1   Homework Examples

5.)

$$A = \{0, 1, 2\}$$

$$B = \{x \in \mathbf{R} \mid -1 <= x < 3\}$$

2 Chapter 2

2.1 2.1 - Logical Operators

A statement (or proposition) is a declarative sentence which is either true or false(not both).

A compound statement is a statement formed from existing statements using

logical operators (see below).

The truth value of a compound statement depends on the truth values of the

individual component statements that make it up.