CS113/DISCRETE MATHEMATICS-SPRING 2024

Worksheet 8

Topic: Sets

Today, We will learn about sets and will also see some of its proofs. Happy Learning!

Student's Nan	ne and ID:
Instructor's na	ame:
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1. Let $A = \{a, b\}$	$(x, c), C, C, B = \{x, y\}, A, C = \{0, 1\}.$ Find:
(a) $A \times B \times$	C

(b) $B \times B \times B$

2. Explain why A \times B \times C and (A \times B) \times C are not the same.

3. Prove that $A \times B \neq B \times A$, when A and B are nonempty sets, unless A = B.

4. Prove or disprove that if A, B, and C are nonempty sets and A \times B = A \times C, then B = C.