

MATH 3200: PROBLEMS FOR QUIZ #3

Quiz #3 will be given on Wednesday, 2/26, during the first 5-10 minutes of class. It will consist of three questions designed to quickly check your knowledge of basic definitions from Chapters 2 and 3. **The three questions will be taken from the following list.** I will be happy to discuss proposed answers to these questions during office hours.

1. Give a full statement of the **Axiom of Mathematical Induction**.
2. Give a full statement of the **Axiom of Complete Mathematical Induction**.
3. What is the **roster method** for describing a set? (You can use the one sentence description of the method on p. 64.)
4. What is the **set builder method** for describing a set? (You can use the one sentence description of the method on p. 64.)
5. What is meant by the **intersection** of two sets A and B ? How is it denoted?
6. What is meant by the **union** of two sets A and B ? How is it denoted?
7. If A and B are sets, what set is $A \setminus B$?

8. What does it mean to say that two sets A and B are **disjoint**? (See p. 68 in the book for this definition.)

9. What is meant by the **complement** of a set A ?