

## **MAT 347 Spring 2010: Exam 1 Guidelines**

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1. Exam 1 will be very similar to quizzes, homework assignments, bonus problems and theorems, propositions in the text-book.
2. Students must be able to give examples of open sets, closed sets, sets that are neither open nor closed, and sets that are open and closed.
3. Students need to know how to use definitions of intersection, union, and complement of sets to prove statements are involved with sets.
4. Students need to know how to use definitions of least upper bound and greatest lower bound to find the least upper bound and the greatest lower bound of the given sets if they exist.
5. Know how to use the definition of metric space to show that a given set is a metric space.
6. Know how to determine whether a given set is open or not.
7. Know how to determine whether a given set is closed or not.