

Math 20043 Information on Exam 1, Chapters 1 & 2

- There will be approximately 16 problems on Exam One.
- Definitions and properties will be tested using true/false or **word bank** matching questions.
- Make sure to **show all required work!** No unsupported answers will be accepted!
- When asked to **demonstrate**, make sure to show **every** step, as if you were working the problem out for your student.

SUGGESTIONS FOR PREPARING FOR EXAM

Work through the recommended problems in the Chapter Reviews and rework lecture examples. Use this to determine the topics upon which you should concentrate. You may wish at that time to rework homework problems over those specific topics. Working with a serious study group is often helpful. **MAKE SURE** that you get a decent night's **sleep**, and **eat** something before your exam – it is very difficult to make good decisions when short on sleep and with no fuel for your brain!

Topics covered

Ch. 1: Definitions; patterns; arithmetic sequences; geometric sequences; Fibonacci sequence; method of finite differences; Polya's problem-solving methods; problem solving with algebra.

Ch. 2: Definitions & notation; sets & subsets; set complement; set intersection and union; using Venn diagrams to solve problems; functions, coordinates & graphs; deductive reasoning; using Venn diagrams to draw logical conclusions; false generalizations, quantifiers.