

Math 95, Section 1

Basic Mathematics and Beginning Algebra

Fall 2005

Instructor

Linda Robertson

Office: GCB 130

Office Hours: MWF 11 AM

Telephone

Office: 293-3671

Home: 293-9451

Email: robertsl@byuh.edu

Course Materials

Bello, Ignacio: Introductory Algebra--A Real-World Approach with ALEKS access
Notebook and pencil, calculator
Course code: **6FFVQ-9QAE6**

Overview

This course provides a review of basic mathematic skills and an introduction to concepts and skills of algebra.

Objectives

You will be able to:

- Find the opposite, reciprocal and absolute value a of a number
- Identify the properties of real numbers
- Use the properties of real numbers to simplify expressions
- Classify real numbers
- Perform operations with real numbers
- Use the order of operations to simplify expressions
- Translate words into algebraic expressions
- Evaluate algebraic expressions, including expressions with exponents
- Solve equations and inequalities in one variable
- Use equations and inequalities to solve application problems
- Graph equations and inequalities on a number line
- Use graphs to solve application problems
- Graph linear equations and inequalities in two variables
- Determine the slope and intercepts of a line given its equation
- Use equations of lines to solve application problems

- Use the rules of exponents to simplify expressions
- Use scientific notation
- Classify and determine the degree of a polynomial
- Perform operations on polynomials
- Factor polynomials, including difference of squares and squares of binomials
- Solve quadratic equations by factoring
- Perform operations with rational expressions
- Solve equations containing rational expressions
- Solve systems of equations
- Use a system of equations to solve application problems
- Perform operations on radical expressions
- Find roots of numbers
- Simplify radical expressions

Course Policies

Attendance

You are expected to attend class each class period.

Learning Mode

This course is a computer-based course using the ALEKS learning system. ALEKS Beginning Algebra includes 229 arithmetic and algebra topics organized to correspond with the chapters of your Introductory Algebra text. You will do your work on the computer and use the textbook as an additional study resource. ALEKS will evaluate your current knowledge and design a learning program specifically for you. ALEKS reports your progress to you and provides topics for you to work on using a pie chart. You select a topic to study from your pie, and when it is mastered, a section of your pie is filled in. You will move through the course objectives at your own pace, but to insure satisfactory progress, you are required to spend at least 8 hours a week working on ALEKS.

Assessment Mode

ALEKS will periodically require you to take an assessment. The purpose of the assessment is to evaluate what you have learned and to plan your next set of lessons; therefore, you must not have help from anyone when you are doing an assessment. You need to work carefully on the assessment and show ALEKS everything that you know, but when you don't know how to do a

problem on the assessment, you should click the “I don’t know” button.

If assessment results seem out of line with the work you have been doing, I will ask you to take a proctored assessment during class time.

Course Management

A group of ALEKS topics, called an Intermediate Objective, corresponds to each assigned chapter of your text. There is a completion deadline for each chapter. As you work on an objective, the time you spend on ALEKS and the progress you are making toward completion of course goals will be reported to me. Each time a deadline arrives I will give you a grade based on the time you spent working on the objective and the number of topics you completed.

Homework

Each time you complete a chapter you will print a worksheet, complete it, and submit it to me for grading.

Exams

There will be a mid-term exam and a final exam. These will be paper and pencil exams. The mid-term will be available in the Testing Center from November 2 to November 9. The final exam will be in the Old Gym on December 10 at 9 AM.

Communication

I will see you in class and work with you individually if you have questions or problems. From time to time I will send you an email with information about the course. If you need extra help, feel free to call me at my office or home or send me an email.

Special Needs

BYU Hawaii is committed to providing a working and learning atmosphere which reasonably accommodates qualified persons with disabilities. If you have any disability that may impair your ability to complete this course successfully, please contact the students with Special Needs Coordinator, Leilani A’una at 293-3518. If you feel you have been discriminated against on the basis of disability, you may contact Human Resource Services at 780-8875 to seek resolution.

Grading

A total of 960 points is available for the semester allocated as follows.

Objective completion grades: There are 500 points available in this area. You receive 50 points for completing an objective on time. If you do not complete the objective on time, your grade for the objective will be based on the number of topics you completed by the deadline and the amount of time you spent working on the objective.

Worksheet grades: Each worksheet is worth 16 points for a total of 160 points.

Exam grades: The mid-term exam will cover concepts from the first 5 chapters. It is worth 100 points.

The final exam covers concepts from the entire course. It is your last chance to show what you've learned and to improve your grade. It is worth 200 points.

Grade assignment

Grades will be computed based on total points earned.

Grading scale

<u>Total Points Earned</u>	<u>Grade</u>	<u>%</u>
902 – 960	A	94-100
844 – 901	A-	88-93
816 – 843	B+	85-87
768 – 815	B	80-84
720 – 767	B-	75-79
691 – 719	C+	72-74
652 – 690	C	68-71
624 – 651	C-	65-67
595 – 623	D+	62-64
556 – 594	D	58-61
528 – 555	D-	55-57
0 – 527	F	0-54