Grande Prairie Regional College
Academic Upgrading Department

# INTRODUCTION TO MATH 0100

This course is divided into 10 separate units called modules. The instructions for each topic are given in the modules, followed by several examples and exercises. Study the instructions and work through the examples before starting each exercise. The answers for each exercise are given at the end of the module. Check your work **often** to make sure you understand each new topic.

**The key to success** in working with modules is to **ask questions** whenever you have difficulty understanding the instructions, the examples or the exercises. **Do not hesitate to ask for help.**

After each module you must write a post-test. A passing mark of 60% is required on the post-test before continuing on to the next module. If you are unable to attain this mark, you must review the material and rewrite the test. The first and second test mark will be averaged.

After you complete the first 5 modules, you will write a 50-minute midterm. Upon completion of all the course modules you will write a three hour final exam. Be sure to allow time to write these important exams! They are worth a large percentage of your final grade.

The recommended test date for each module and the midterm is on the back. Stick to these dates as closely as you can. If you are ready to write a test early, you may do so. **Consult your instructor immediately if you find yourself falling behind schedule.** Your instructor may need to reassess your math skills to ensure that you are placed in a course where you can be successful.

Your final mark is determined by:

| | |
|---|---|
| 10 module tests | 40% |
| Midterm | 20% |
| Final Exam | 40% |

You require a scientific calculator, with the following functions, helpful in this course:

$$\text{EXP}\ ,\ \sqrt{x}\ ,\ \sin\ ,\ \cos\ ,\ \tan\ ,\ y^x\ ,\ \pi$$

BONUS
When you write your midterm on or before the given date, you will be awarded an additional 5% on your score.

# MATH 0100 - Fall 2001

| Module | TOPIC/DESCRIPTION | Recommended Time & Test Date | Date you wrote | Your Mark |
|---|---|---|---|---|
| 1 | Review<br>- basic notations<br>- decimals, fractions & integers - four basic operations<br>- order of operations, & percent | 1 week<br><br>Sept. 13 | | |
| 2 | Numbers<br>- sets | 1 week<br>Sept. 19 | | |
| 3 | Exponents<br>- laws of exponents<br>- scientific notation | 1½ weeks<br>Sept. 28 | | |
| 4 | Introduction to Polynomials<br>- four basic operations | 1½ weeks<br>Oct. 11 | | |
| 5 | Products and Factoring<br>- FOIL, common factor, trinomials<br>- difference of squares | 2 weeks<br>Oct. 25 | | |
| | **MIDTERM EXAM** | **Oct. 29** | | |
| 6 | Equations and Inequalities<br>-evaluating expressions. formulas<br>-rearranging formulas | 1½ weeks<br>Nov. 8 | | |
| 7 | Language of Algebra<br>-writing algebraic expressions<br>-writing algebraic equations<br>-word problems | 1 week<br>Nov. 15 | | |
| 8 | Geometry<br>-plane geometry | 1 week<br>Nov. 22 | | |
| 9 | Trigonometry<br>- congruent & similar triangles<br>- Tangent, Sine & Cosine with applications | 1½ weeks<br>Dec. 4 | | |
| 10 | Graphs & Data Analysis | 1 week<br>Dec. 12 | | |
| | **FINAL EXAM - 3 HOURS** | TBA | | |