Grande Prairie Regional College
Academic Upgrading Department

# INTRODUCTION TO MATH 0110

This course is divided into 10 separate units called modules. The instructions are given in the modules along with several examples and exercises. Study the instructions and work through the examples before starting the exercise. The answers for the exercises are given at the end of the module. Check your work **often.**

**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.

You will be required to write a 50 minute midterm which will cover the first 5 modules. Upon completion of all modules, you will write a three hour final exam.

The recommended test date for each module and the midterm is on the back. If you are ready to write a test early, you may do so. **Consult your instructor immediately if you find yourself falling behind schedule.** It may be necessary 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:

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

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

**MATH 0110 - Fall 2001**

| Module | TOPIC/DESCRIPTION | Recommended Time & Test Date | Date you wrote | Your mark |
|---|---|---|---|---|
| 1 | Review | 1 week<br>Sept. 11 | | |
| 2 | Exponents & Radicals<br>- rational exponents, four basic operations on exponents and radicals, solving radical equations | 2 weeks<br>Sept. 21 | | |
| 3 | Polynomials<br>- evaluating polynomials;<br>- four basic operations | 1 week<br>Oct. 1 | | |
| 4 | Factoring<br>- common factors, trinomials and difference of squares; solving by factoring | 1½ weeks<br>Oct. 11 | | |
| 5 | Probability | 1 week<br>Oct. 16 | | |
| | **MIDTERM EXAM** | **Oct. 19** | | |
| 6 | Coordinate Geometry<br>- rectangular co-ordinate system; graphing linear equations and inequalities | 1½ weeks<br>Oct. 31 | | |
| 7 | Coordinate Geometry<br>- distance between points; midpoints, slope; equations of lines | 1½ weeks<br>Nov. 13 | | |
| 8 | Introductions to Functions | 1 week<br>Nov. 20 | | |
| 9 | Trigonometry<br>- Pythagorean Theorem; sin, cos, tan; applications | 1 week<br>Nov. 29 | | |
| 10 | Consumer Credit | 1 week<br>Dec. 10 | | |
| | **FINAL EXAM - 3 HOURS** | **T.B.A.** | | |