

FOUNDATIONS OF MATHEMATICS & PRE-CALCULUS 10

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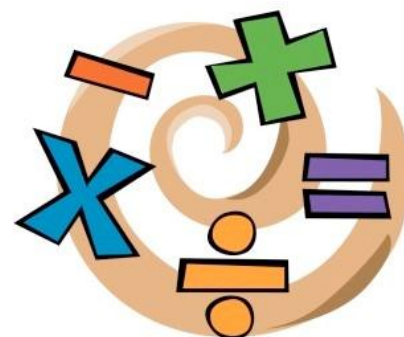
Textbook: Mathematics 10

WELCOME TO FOUNDATIONS OF MATHEMATICS & PRE-CALCULUS 10!

Foundations of Mathematics & Pre-Calculus 10 is designed to provide students with mathematical understandings and critical thinking skills identified for post-secondary studies in both the arts and the sciences. Topics include applying trigonometric ratios to right triangles, irrational numbers, powers involving integral and rational exponents, polynomials, coordinate geometry with linear relations, system of linear equations, and function notation.

BIG IDEAS

- ☆ Algebra allows us to generalize relationships through abstract thinking.
- ☆ The meanings of, and connections between, each operation extend to powers and polynomials.
- ☆ Constant rate of change is an essential attribute of linear relations and has meaning in different representations and contexts.
- ☆ Trigonometry involves using proportional reasoning to solve indirect measurement problems.
- ☆ Representing and analyzing situations allows us to notice and wonder about relationships.



REQUIRED MATERIALS

- | | | | |
|-----------------|----------------|----------|--------------------------|
| ☆ textbook | ☆ binder | ☆ pencil | ☆ scientific calculator* |
| ☆ lined paper | ☆ graph paper | ☆ pen | |
| ☆ chapter notes | ☆ highlighters | ☆ ruler | |

CALCULATOR

- ☆ Scientific Calculator with the following functions: \pm , x^2 , x^y or \wedge , $1/x$, $\sqrt{\quad}$, $\sqrt[y]{x}$, EE or EXP , \log , \sin , \sin^{-1} , \cos , \cos^{-1} , \tan , \tan^{-1}
- ☆ The final exam for this course involves a section to be written without a calculator. You must be prepared, at certain times during the course, to put away your calculator.
- ☆ Please note that if your calculator has graphing functions, you will not be permitted to use these functions during graphing portions of the course.

EVALUATION

TERM MARK:

ASSIGNMENTS & NOTES 25%

Daily assignments will be given and you are expected to complete them to the best of your ability before the next class. Please refer to the "Completing Assignments" handout for details. Your chapter notes will be collected on chapter test days and marked for completeness and organization. Please refer to the notebook rubric. You should spend some time getting your notes into good order and self-marking them using the rubric before test days.

TESTS 75%

Tests will be written at the conclusion of each chapter. Test dates will be provided well in advance, and you should spend a significant amount of time studying and preparing. If you are absent on the day of the test, you must write the test within two days upon your return. Rewriting a chapter test is a privilege, not a right. If you would like to rewrite a chapter test, you must demonstrate that you have completed the chapter assignments and completed the rewrite assignment.

SEMESTER GRADE:

TERM 1 40%

TERM 2 40%

FINAL EXAM 20%

THE PATH TO SUCCESS

- **BE PREPARED AND ON TIME.** The successful student attends class regularly and brings all necessary materials EVERYDAY
- **BE ORGANIZED.** Keep track of your classroom/homework assignments, and important dates.
- **ASK QUESTIONS!** Get help right away. Small problems don't go away, they get bigger!
- **USE CLASS TIME WISELY.** If you focus, you will be able to get most of your homework done during class, while help is available!
- **DO HOMEWORK!** It is essential that you keep up to date as each new concept builds on the previous one, and a new lesson will be taught every day.
- **TAKE PERSONAL RESPONSIBILITY FOR YOUR LEARNING!** If you have a problem with the course, come and talk to me before school, during lunch or after school.

CLASSROOM EXPECTATIONS:

- No pop or food! Only closed water bottles or closed coffee mugs are allowed.
- Music players are permitted only when doing assignments (at a volume that only you can hear). During teaching or class discussions, please have music players off and out of sight. If this becomes a problem, music players may be banned from the classroom.
- Cell phones can only be used for emergencies and should also be out of sight. **NO TEXTING DURING CLASS!**
- Behave respectfully and courteously towards other students and your teacher at all times. It is important to build a positive learning environment where EVERYBODY feels comfortable.