

Saturday Workshop Series: Preparing for University Mathematics

Are you feeling a little under-prepared for your math course this semester?
Need to brush up on your fundamentals?

The Mathematics Help Centre is offering a three weekend workshop series on the topics most important to success in university, all of which are **TOTALLY FREE!**

Day 1 (Jan 20)

Unit 1A: Algebra

- Factoring Expressions
- Multiplying and Dividing Rational Expressions

Unit 1B: Slopes and Lines

- Slope of a Line
- Equations of Lines
- Parallel and Perpendicular Lines
- Horizontal and Vertical Lines

Unit 1C: Word Problems

- Interpreting Word Problems
- Writing and Solving Equations from Word Problems

Day 2 (Jan 27)

Unit 2A: Algebra

- Adding and Subtracting Rational Expressions
- Solving Quadratic and Rational Equations

Unit 2B: Exponents

- Graphs of Exponential Functions
- Law of Exponents
- The Natural Exponent e

Unit 2C: Logarithms

- Graphs of Logs
- Log Laws
- The Natural Log
- Expanding Logarithms

Day 3 (Feb 03)

Unit 3A: Algebra

- Dealing with Radicals (Square/Cube roots, etc.)
- Absolute Values

Unit 3B: Functions

- Composition of Functions
- Simplifying $f(x + h) - f(x)$ (Extremely Helpful for Calculus)

Unit 3C: Trigonometry

- Right Angle Trigonometry
- Sine, Cosine and Tangent
- Special Values and the Unit Circle

Suitable for students registered in any of the following courses:
MATH 1010, MATH 1210, MATH1240, MATH 1300, MATH 1500, MATH 1510,
MATH 1524, MATH 1700 or MATH 1710

Each of the above workshops are totally independent; attend as many or as few of them as you wish! All three workshops will be from 10 am - 1 pm.

Please visit the Math Help Centre Website with this [link](#) to register. There are limited spots available, so early registration is advised. For more information contact Clifford.Allotey@umanitoba.ca