**Preface**

If you are looking for a quick exam, homework guide, and review book in intermediate mathematics, *“Key Concepts of* *Intermediate Level Math*” is an excellent source. Skip the lengthy and distracting books and instead use this concise book as a guideline for your studies, quick reviewing and tutoring.

This unique and well-structured book is an excellent supplement and convenient reference book for intermediate mathematics. It provides concise, understandableand effective guide on intermediate level mathematics.

**Key Features**

As an aid to readers, the book provides some noteworthy features:

* A concise study guide, quickly getting to the heart of each particular topic, helping students with a quick review before doing mathematics homework as well as preparation for tests.
* Each topic, concept, term and phrase has a clear definition followed by examples on each page.
* Key terms, definitions, properties, phrases, concepts, formulae, rules, equations, etc. are easily located. Clear step-by-step procedures for applying theorems.
* Clear and easy-to-understand written format and style. Materials presented in visual and gray scale format with less text and more outlines, tables, boxes, charts, etc.
* Tables that organize and summarize procedures, methods, and equations; clearly presenting information and making studying more effective.
* Procedures and strategies for solving word problems, using realistic real-world application examples.
* Summary at the end of each unit to emphasize the key points and formulas in the unit, which is convenient for students reviewing before exams.
* Self-test at the end of each unit tests student’s understanding of the material. Students can take the self-test before beginning the unit to determine how much they know about the topic.  Those who do well may decide to move on to the next unit.

**Suitable Readers**

This book can be used for:

* + Adult Basic Education programs at colleges.
  + Students in community colleges, high schools, tutoring, or resource rooms.
  + Self-study readers, including new teachers to brush up on their mathematics.
  + Professionals as a quick review of some basic mathematic formulas and concepts, or parents to help their children with homework.

**Acknowledgements**

Special thanks to Lucas Wright, the former open education advisor of Open Education / BCcampus, for his help, advice, and support throughout the entire process.

I would also like to express my sincere gratitude to Amanda Coolidge, the senior manager of Open Education / BCcampus. I really appreciate her belief in my ability to write this open text.

In addition, I would also like to express my gratitude to Chad Thompson, the dean of School of University Studies, Alison Anderson, the associate dean of School of University Studies at the College of New Caledonia, and Josie Gray, the coordinator of collection quality of Open Education / BCcampus, for their support in publishing this open text.

**Bibliography**

* + Meizhong Wang. ***Algebra I & II Key Concepts, Practice, and Quizzes****. ​* U.S.: The Critical Thinking Co., 2014, second edition, 2017.
* Meizhong Wang. ***Math Made Easy****.* Canada: CNC Press, 2011, second edition, 2013.
* Academic Upgrading, College of New Caledonia. ***Math 030, 1st and 2nd Books***, 2016 Edition.