

If z, z_1, z_2 are complex number.

(i). $|z| = 0$

$\Leftrightarrow z = 0$ that is $\operatorname{Re}(z) = \operatorname{Im}(z) = 0$

(ii). $|z| = |\bar{z}| = |-z| = |-\bar{z}|$

(iii). $-|z| \leq \operatorname{Re}(z) \leq |z|, -|z| \leq \operatorname{Im}(z) \leq |z|$

(iv). $z\bar{z} = |z|^2$

(v). $|z_1 z_2| = |z_1| |z_2|$

(vi). $\left| \frac{z_1}{z_2} \right| = \frac{|z_1|}{|z_2|}, \quad z_2 \neq 0$

(vii). $|z_1 + z_2|^2 = |z_1|^2 + |z_2|^2 + \operatorname{Re}(z_1 \bar{z}_2)$

(viii). $|z_1 - z_2|^2 = |z_1|^2 + |z_2|^2 - \operatorname{Re}(z_1 \bar{z}_2)$

(ix). $|z_1 + z_2|^2 + |z_1 - z_2|^2 = 2(|z_1|^2 + |z_2|^2)$

(x). $|z_1 \pm z_2| \leq |z_1| + |z_2|$

(xi). $|z_1 \pm z_2| \geq |z_1| - |z_2|$

(xii). $|z^n| = |z|^n \quad \text{where } n \in \mathbb{Q}.$

(xiii). $|az_1 - bz_2|^2 + |bz_1 + az_2|^2$

$$= (a + b)^2 (|z_1|^2 + |z_2|^2) \text{ where } a, b \in \mathbb{R}.$$

Maths A To Z

Duncan Buell

Maths A To Z:

Algebra From A To Z - Volume 2 A W Goodman,2001-09-04 This book presents a thorough explanation of the notation of summation some unusual material on inequalities an extended treatment of mathematical induction and basic probability theory including the explanation that all gambling systems must fail It also contains a complete treatment of vector algebra including the dot and cross product This is usually reserved for a calculus course but is properly algebra and so belongs in any algebra book Since this book deals with algebra from A to Z it starts at the beginning with the arithmetic of the counting numbers and their extensions i e the negative numbers and the rational numbers However these very elementary items are treated from an advanced point of view The teacher should assign the first three chapters as outside reading using only one day per chapter for classroom discussion The remaining chapters cover all of the usual topics in college algebra but they contain many unusual items not found in the standard college algebra course As an example the circle notation for a composite function is now standard material but this book explains just why that notation is needed The book concludes with a presentation of the Peano Axioms This advanced topic should be available to all mathematics students whether they are first year algebra students or are working for a PhD degree

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Powers,2013-06-19 Designed to cater fo a wide range of learning styles and abilities this student friendly text prepares every student for their HSC exams and reinforces the skills you need to manage your personal fianances and to effectively participate in an increasingly complex society

Algorithmic Number Theory Duncan Buell,2004-06 This book constitutes the refereed proceedings of the 6th International Algorithmic Number Theory Symposium ANTS 2004 held in Burlington VT USA in June 2004 The 30 revised full papers presented together with 3 invited papers were carefully reviewed and selected for inclusion in the book Among the topics addressed are zeta functions elliptic curves hyperelliptic curves GCD algorithms

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Ihsen Yengui,2015-12-11 The main goal of this book is to find the constructive content hidden in abstract proofs of concrete theorems in Commutative Algebra especially in well known theorems concerning projective modules over polynomial rings

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Iza Marfisi-Schottman,Francesco Bellotti,Ludovic Hamon,Roland Klemke,2020-12-02 This book constitutes the refereed proceedings of the 9th International Conference on Games and Learning Alliance GALA 2020 held in Laval France in December 2020 The 35 full papers and 10 short papers were carefully reviewed and selected from 77 submissions The papers cover a broad spectrum of topics Serious Game Design Serious Game Analytics Virtual and Mixed Reality Applications Gamification Theory Gamification Applications Serious Games for Instruction and Serious Game Applications and Studies

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