

## Unit 31

## Module 3 : Complex Numbers

Suchis Ramesh

- A complex number is made up of two parts, a real part and an imaginary part, represented as  $z = a + i b$  where :

- $z$  is the complex number
- $i = j$  is the imaginary unit
- $a$  and  $b$  are real numbers.

" $a$ " represents the real part.

" $b$ " represents the imaginary part.

$$\left\{ \boxed{z = a + i b} \right\} \begin{array}{l} \text{complex no.} \\ \text{in rectangle form} \end{array}$$

### # The imaginary unit ( $i$ or $j$ )

$$(-1)^{\text{odd}} = -1$$

$$\& \quad (-1)^{\text{even}} = +1$$

$$\boxed{i = j = \sqrt{-1}}$$

$$\boxed{i^2 = (\sqrt{-1})^2 = -1}$$

$$i^3 = -i$$

$$i^4 = +1$$

$$i^5 = i$$

$$\rightarrow i^3 = i^2 \cdot i = (-1) i = -i$$

$$\therefore j^5 = (j^4) \cdot j = (+1) j = j$$

# Another method of simplifying  $j^0, j^1, j^2, j^3$  use diagram below



# Maths N6 Memorandum

**Semyon Dyatlov, Maciej Zworski**



## Maths N6 Memorandum:

Network-Centric Naval Forces National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Naval Studies Board, Committee on Network-Centric Naval Forces, 2000-08-21 Network Centric Naval Forces A Transition Strategy for Enhancing Operational Capabilities is a study to advise the Department of the Navy regarding its transition strategy to achieve a network centric naval force through technology application This report discusses the technical underpinnings needed for a transition to networkcentric forces and capabilities Applied Algebra, Algebraic Algorithms and Error-Correcting Codes Gerard Cohen, Teo Mora, 1993-04-20 Researchers may find themselves confronted with proteases either because they play an essential role in a particular process they are studying or because they interfere with that process In either case they may need to investigate or inhibit the proteolytic activity Others may wish to use proteolytic enzymes as laboratory tools This book has been written with these investigators in mind and includes assay methods using natural and artificial substrates genetic based assays and strategies for the inhibition purification and crystallization of proteases In selected chapters the use of proteolytic enzymes to analyze proteins segregate cells or in peptide synthesis is covered **U.S. Government Research Reports**, 1957 *CIS Index to U.S. Executive Branch Documents, 1910-1932*, 2001 Shaping the Future of South Africa's Youth Helene Perold, Nico Cloete, Joy Papier, 2012 Why solving ongoing problems with the NQF National Qualifications Framework matters The challenges unemployment imposes on youth The challenge of youth to work transitions an international perspective A statistical overview of further education and training colleges Strengthening the capacity of FET Colleges to meet the needs of young people Higher education and an expanded post school educational system Trends in training in South Africa Key issues in the assessment of South Africa s national skills development strategy Opening the doors of learning Viewing the post school education and training landscape from a youth perspective *Mathematical Theory of Scattering Resonances* Semyon Dyatlov, Maciej Zworski, 2019-09-10 Scattering resonances generalize bound states eigenvalues for systems in which energy can scatter to infinity A typical resonance has a rate of oscillation just as a bound state does and a rate of decay Although the notion is intrinsically dynamical an elegant mathematical formulation comes from considering meromorphic continuations of Green s functions The poles of these meromorphic continuations capture physical information by identifying the rate of oscillation with the real part of a pole and the rate of decay with its imaginary part An example from mathematics is given by the zeros of the Riemann zeta function they are essentially the resonances of the Laplacian on the modular surface The Riemann hypothesis then states that the decay rates for the modular surface are all either or An example from physics is given by quasi normal modes of black holes which appear in long time asymptotics of gravitational waves This book concentrates mostly on the simplest case of scattering by compactly supported potentials but provides pointers to modern literature where more general cases are studied It also presents a recent approach to the study of resonances on asymptotically hyperbolic manifolds The last two

chapters are devoted to semiclassical methods in the study of resonances      *CIS Index to U.S. Executive Branch Documents, 1910-1932* Congressional Information Service, 2001      *Constructing and Applying Objective Functions* Andranik S. Tangian, Josef Gruber, 2012-12-06 For some seven decades econometrics has been almost exclusively dealing with constructing and applying econometric equation systems which constitute constraints in econometric optimization models The second major component the scalarvalued objective function has only in recent years attracted more attention and some progress has been made This book is devoted to theories models and methods for constructing scalarvalued objective functions for econometric optimization models to their applications and to some related topics like historical issues about pioneering contributions by Ragnar Frisch and Jan Tinbergen      **Title Announcement Bulletin** ,1956      *Current Index to Journals in Education* ,1987      **Bounded Littlewood Identities** Eric M. Rains, S. Ole Warnaar, 2021-07-21 We describe a method based on the theory of Macdonald Koornwinder polynomials for proving bounded Littlewood identities Our approach provides an alternative to Macdonald's partial fraction technique and results in the first examples of bounded Littlewood identities for Macdonald polynomials These identities which take the form of decomposition formulas for Macdonald polynomials of type  $R/S$  in terms of ordinary Macdonald polynomials are  $q, t$  analogues of known branching formulas for characters of the symplectic orthogonal and special orthogonal groups In the classical limit our method implies that MacMahon's famous ex conjecture for the generating function of symmetric plane partitions in a box follows from the identification of  $GL(n, \mathbb{R}) \times O(n)$  as a Gelfand pair As further applications we obtain combinatorial formulas for characters of affine Lie algebras Rogers Ramanujan identities for affine Lie algebras complementing recent results of Griffin et al and quadratic transformation formulas for Kaneko Macdonald type basic hypergeometric series      *Documentation Defense Documentation Center (U.S.)*, 1961      **Serials Holdings** Linda Hall Library, 1983      Catalog of Technical Reports United States. Dept. of Commerce. Office of Technical Services,      **Simultaneous Linear Equations and the Determination of Eigenvalues** Institute for Numerical Analysis (U.S.), 1953      **U.S. Government Research & Development Reports** ,1966      Title List of Documents Made Publicly Available U.S. Nuclear Regulatory Commission, 1992      **Scientific and Technical Aerospace Reports** ,1964      **Bibliography of Scientific and Industrial Reports** ,1965-07      Government Reports Announcements ,1974

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