

EXERCISE 3.1

1. Express each of the following complex numbers in the form $a + bi$.

- a) $5 + \sqrt{-4}$
- b) $1 - \sqrt{-9}$
- c) $6 - \sqrt{-2}$
- d) $x + \sqrt{-16y^2}$

2. Simplify each of the following.

- a) i^4
- b) $\frac{1}{i^4}$
- c) $(i)^{2n}$
- d) $(i)^{4n+1}$

3. Simplify each of the following.

- a) $(4 + 5i) + (3 - 2i)$
- b) $(8 - 6i) - (2 - 5i)$
- c) $2i(3 - 2i)$
- d) $(3 - 4i)^2$

4. Express each of the following in the form $a + bi$.

- a) $\frac{i}{3 - i}$
- b) $\frac{2 + i}{3 + i}$
- c) $\frac{3 - i}{1 - 2i}$
- d) $\frac{2 - i}{(2 + i)^2}$

5. Find the values of a and b in each of the following equations.

- a) $a + bi = (3 - 2i)^2$
- b) $a + b + i(a - b) = 3 + 5i$
- c) $(1 + 2i)(a + bi) = 7 - i$

6. Given that $z = -2 + i$, express $z + \frac{1}{z}$ in the form $a + bi$.

7. Given that $z = 2 - 3i$, express $\frac{z}{1 - z^2}$ in the form $a + bi$.

Complex Number Exercises

Albert L. Rabenstein



Complex Number Exercises:

Exercises of Complex Numbers Simone Malacrida, 2022-12-18 In this book exercises are carried out regarding the following mathematical topics complex numbers solving third degree equations hyperbolic functions and properties Initial theoretical hints are also presented to make the performance of the exercises understood [Complex Numbers](#) J. Williams, 1972

Complex Numbers Made Simple Verity Carr, 1996-03-12 Complex Numbers lie at the heart of most technical and scientific subjects This book can be used to teach complex numbers as a course text a revision or remedial guide or as a self teaching work The author has designed the book to be a flexible learning tool suitable for A Level students as well as other students in higher and further education whose courses include a substantial maths component e g BTEC or GNVQ science and engineering courses Verity Carr has accumulated nearly thirty years of experience teaching mathematics at all levels and has a rare gift for making mathematics simple and enjoyable At Brooklands College she has taken a leading role in the development of a highly successful Mathematics Workshop This series of Made Simple Maths books widens her audience but continues to provide the kind of straightforward and logical approach she has developed over her years of teaching [Algebra for JEE Advanced, 3E \(Free Sample\)](#) G. Tewani, 2022-05-19 Algebra for JEE Advanced a Cengage Exam Crack Series product is designed to help aspiring engineers focus on the subject of mathematics from two standpoints To develop their caliber aptitude and attitude for the engineering field and profession To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level Each book in this series approaches the subject in a very conceptual and coherent manner While its illustrative solved examples facilitate easy mastering of the concepts and their applications an array of solved problems exposes the students to a variety of questions that they can expect in the examination The coverage and features of this series of books make it highly useful for all those preparing for JEE Main and Advanced and aspiring to become engineers

Complex Numbers Quadratic Equations, Plane and Solid Geometry, Trigonometry The Editors of Rea, 1999 The Math Made Nice and Easy series simplifies the learning and use of math and lets you see that math is actually interesting and fun This series is for people who have found math scary but nevertheless need some understanding of math without having to deal with the complexities found in most math textbooks Topics in Book 4 include Complex Numbers Quadratic Equations Plane Solid Geometry and Trigonometry

The Elements of Advanced Mathematics Steven G. Krantz, 1995-04-21 Clearly written and easy to understand The Elements of Advanced Mathematics covers logic set theory methods of proof and axiomatic structures providing an excellent grounding in analytical thinking It facilitates the transition from elementary mathematics generally characterized by problem solving techniques to advanced mathematics characterized by theory rigor and proofs This text clearly identifies and explains the components and methods of advanced mathematics Each chapter contains exercises designed to assist the reader in understanding the material

Standard Algebra William James Milne, 1908 **Milne's Second Course in Algebra** William James

Milne,1915 **Elementary Differential Equations with Linear Algebra** Albert L. Rabenstein,2014-05-10 Elementary Differential Equations with Linear Algebra Third Edition provides an introduction to differential equation and linear algebra This book includes topics on numerical methods and Laplace transforms Organized into nine chapters this edition begins with an overview of an equation that involves a single unknown function of a single variable and some finite number of its derivatives This text then examines a linear system of two equations with two unknowns Other chapters consider a class of linear transformations that are defined on spaces of functions wherein these transformations are essential in the study of linear differential equations This book discusses as well the linear differential equations whose coefficients are constant functions The final chapter deals with the properties of Laplace transform in detail and examine as well the applications of Laplace transforms to differential equations This book is a valuable resource for mathematicians students and research workers Groups and Symmetry Mark A. Armstrong,1997-02-27 This is a gentle introduction to the vocabulary and many of the highlights of elementary group theory Written in an informal style the material is divided into short sections each of which deals with an important result or a new idea Includes more than 300 exercises and approximately 60 illustrations

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