

Solutions Manual, Linear Algebra Theory And Applications

F.12 Exercises

1.6

1. Let
- $z = 5 + i9$
- . Find
- z^{-1}
- .

$$(5 + i9)^{-1} = \frac{5}{106} - \frac{9}{106}i$$

2. Let
- $z = 2 + i7$
- and let
- $w = 3 - i8$
- . Find
- zw
- ,
- $z + w$
- ,
- z^2
- , and
- w/z
- .

$$62 + 5i, 5 - i, -45 + 28i, \text{ and } -\frac{29}{65} - \frac{27}{65}i.$$

3. Give the complete solution to
- $x^4 + 16 = 0$
- .

$$x^4 + 16 = 0, \text{ Solution is: } (1 - i)\sqrt{2}, -(1 + i)\sqrt{2}, (1 - i)\sqrt{2}, (1 + i)\sqrt{2}.$$

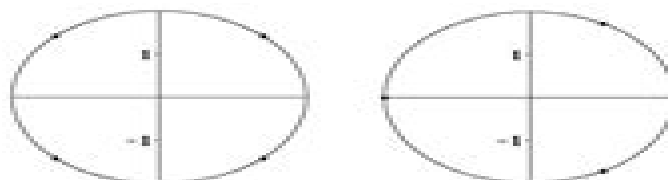
4. Graph the complex cube roots of 8 in the complex plane. Do the same for the four fourth roots of 16.

The cube roots are the solutions to $z^3 + 8 = 0$, Solution is: $i\sqrt{3} + 1, 1 - i\sqrt{3}, -2$

The fourth roots are the solutions to $z^4 + 16 = 0$, Solution is:

$$(1 - i)\sqrt{2}, -(1 + i)\sqrt{2}, (1 - i)\sqrt{2}, (1 + i)$$

$\sqrt{2}$. When you graph these, you will have three equally spaced points on the circle of radius 2 for the cube roots and you will have four equally spaced points on the circle of radius 2 for the fourth roots. Here are pictures which should result.



5. If
- z
- is a complex number, show there exists
- ω
- a complex number with
- $|\omega| = 1$
- and
- $\omega z = |z|$
- .

If $z = 0$, let $\omega = 1$. If $z \neq 0$, let $\omega = \frac{\bar{z}}{|z|}$

6. De Moivre's theorem says
- $[r(\cos t + i \sin t)]^n = r^n (\cos nt + i \sin nt)$
- for
- n
- a positive integer. Does this formula continue to hold for all integers,
- n
- , even negative integers? Explain.

Yes, it holds for all integers. First of all, it clearly holds if $n = 0$. Suppose now that n is a negative integer. Then $-n > 0$ and so

$$[r(\cos t + i \sin t)]^n = \frac{1}{[r(\cos t + i \sin t)]^{-n}} = \frac{1}{r^{-n} (\cos(-nt) + i \sin(-nt))}$$

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Linear Algebra with Applications Gareth

Williams, 2005 *Linear Algebra with Applications* Fifth Edition by Gareth Williams is designed for math and engineering students taking an introductory course in linear algebra. It provides a flexible blend of theory, important numerical techniques, and interesting applications in a range of fields. Instructors can select topics that give the course the desired emphasis and include other areas as general reading assignments to give students a broad exposure to the field. *Student Solutions Manual for Financial Theory and Corporate Policy* Thomas E. Copeland, 1988

Intermediate Microeconomic Theory Ana Espinola-Arredondo, Felix Munoz-Garcia, 2020-10-27 A short, rigorous introduction to intermediate microeconomic theory that offers worked-out examples, tools for solving exercises, and algebra support. This book takes a concise, example-filled approach to intermediate microeconomic theory. It avoids lengthy conceptual description and focuses on worked-out examples and step-by-step solutions. Each chapter presents the basic theoretical elements, reducing them to their main ingredients and offering several worked-out examples and applications, as well as the intuition behind each mathematical assumption and result. The book provides step-by-step tools for solving standard exercises, offering students a common approach for solving similar problems. The book walks readers through each algebra step and calculation, so only a basic background in algebra and calculus is assumed. The book includes 140 self-assessment exercises, giving students an opportunity to apply concepts from previous worked-out examples. Topics covered include consumer theory, substitution and income effect, welfare gain or loss from a price change, and choice under uncertainty. Shifting to a firm theory, the book discusses production functions, cost minimization, perfectly competitive markets, and monopolies. Two chapters on game theory provide building blocks for subsequent chapters that treat imperfect markets, games of incomplete information, and auctions, contract theory, and externalities, public goods, and common pool resources. The book is suitable for use in undergraduate intermediate microeconomics courses, rigorous introduction to microeconomics courses, and managerial economics at the masters level. *British Books in Print*, 1985 *Christian Home Educators' Curriculum Manual* Cathy Duffy, 1997-11

Optimal Control Theory Suresh P. Sethi, 2022-01-03 This new 4th edition offers an introduction to optimal control theory and its diverse applications in management science and economics. It introduces students to the concept of the maximum principle in continuous as well as discrete time by combining dynamic programming and Kuhn-Tucker theory. While some mathematical background is needed, the emphasis of the book is not on mathematical rigor but on modeling realistic situations encountered in business and economics. It applies optimal control theory to the functional areas of management, including finance, production, and marketing, as well as the economics of growth and of natural resources. In addition, it features material on stochastic Nash and Stackelberg differential games and an adverse selection model in the principal-agent framework. Exercises are included in each chapter, while the answers to selected exercises help deepen readers' understanding of the material covered. Also included are appendices of supplementary material on the solution of differential equations, the calculus of variations, and its ties to the maximum principle, and special topics including the Kalman

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