

Solutions Manual, Linear Algebra Theory And Applications

F.12 Exercises

1.6

- Let $z = 5 + i9$. Find z^{-1} .
 $(5 + i9)^{-1} = \frac{5}{106} - \frac{9}{106}i$
- Let $z = 2 + i7$ and let $w = 3 - i8$. Find $zw, z + w, z^2$, and w/z .
 $52 + 5i, 5 - i, -45 + 28i$, and $-\frac{29}{23} - \frac{11}{23}i$.
- Give the complete solution to $z^4 + 16 = 0$.
 $z^4 + 16 = 0$, Solution is: $(1 - i)\sqrt{2}, -(1 + i)\sqrt{2}, (1 - i)\sqrt{2}, (1 + i)\sqrt{2}$.
- 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.



- If z is a complex number, show there exists w a complex number with $|w| = 1$ and $wz = |z|$.
 If $z = 0$, let $w = 1$. If $z \neq 0$, let $w = \frac{\bar{z}}{|z|}$
- 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

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

Algebra Theory Applications Solutions Manual

Arthur James Wells



Algebra Theory Applications Solutions Manual:

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methods equations and solutions that are frequently used in scientific and engineering applications and present classical as
well as newer solution methods for various mathematical equations The book supplies numerous examples graphs figures
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integral and functional equations **Introduction to Abstract Algebra** W. Keith Nicholson, 2012-03-20 Praise for the Third
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Lawrence, Daniel Solow, 1998-06-01 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1962 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December

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