

Solutions Manual, Linear Algebra Theory And Applications

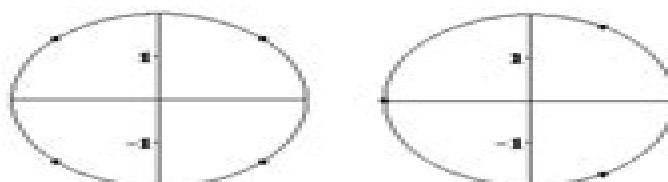
F.12 Exercises

1.6

- Let $z = 5 + i9$. Find z^{-1} .
 $(5 + i9)^{-1} = \frac{5}{108} - \frac{9}{108}i$
- 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 $-\frac{29}{23} - \frac{15}{23}i$.
- 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

Gareth Williams



Algebra Theory Applications Solutions Manual:

Algebra Theory Applications Solutions Manual Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Algebra Theory Applications Solutions Manual**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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