

Solutions Manual, Linear Algebra Theory And Applications

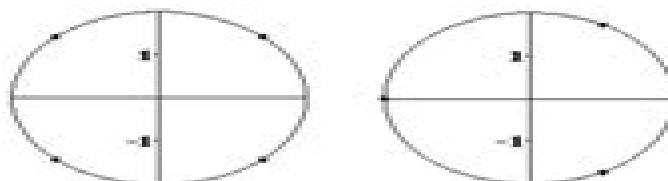
F.12 Exercises

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.

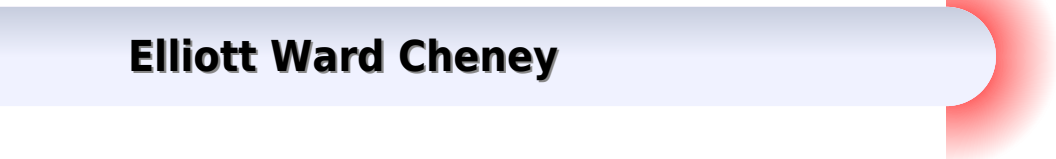


- If z is a complex number, show there exists w a complex number with $|w| = 1$ and $wz = |z|$.
 If $z = 0$, let $w = 1$. If $z \neq 0$, let $w = \frac{\bar{z}}{|z|}$
- De Moivre's theorem says $|r(\cos t + i \sin t)|^n = r^n (\cos nt + i \sin nt)$ for n a positive integer. Does this formula continue 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

Elliott Ward Cheney



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YIZENG LI PhD is Professor in the Department of Mathematics at Tarrant County College USA He is a member of the Society for Industrial and Applied Mathematics MEHRAN MAHDAVI PhD is Professor in the Department of Mathematics at Bowie State University USA The author of numerous journal articles he is a member of the American Mathematical Society Society for Industrial and Applied Mathematics and the Mathematical Association of America **Applied Abstract Algebra** Rudolf Lidl, Günter Pilz, 1997-11-25 Accessible to junior and senior undergraduate students this survey contains many examples solved exercises sets of problems and parts of abstract algebra of use in many other areas of discrete mathematics Although this is a mathematics book the authors have made great efforts to address the needs of users employing the techniques discussed Fully worked out computational examples are backed by more than 500 exercises throughout the 40 sections This new edition includes a new chapter on cryptology and an enlarged chapter on applications of groups while an extensive chapter has been added to survey other applications not included in the first edition The book assumes knowledge of the material covered in a course on linear algebra and preferably a first course in abstract algebra covering the basics of groups rings and fields

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