

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 .

$$62 + 5i, 5 - i, -45 + 28i, \text{ and } -\frac{30}{53} - \frac{37}{53}i.$$

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

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

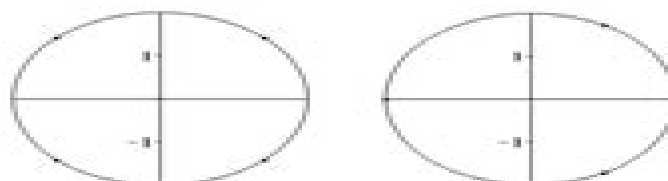
4. Graph the complex cube roots of 8 in the complex plane. Do the same for the four fourth roots of 16.

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

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

$$(1 - i)\sqrt[4]{2}, -(1 + i)\sqrt[4]{2}, -(1 - i)\sqrt[4]{2}, (1 + i)$$

$\sqrt[4]{2}$. 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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