Solutions Manual, Linear Algebra Theory And Applications

F.12 Exercises

1.6

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

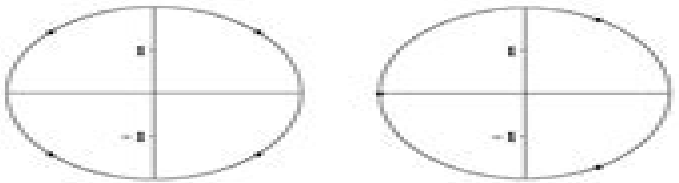
2. Let $z = 2 + i7$ and let $w = 3 - i8$. Find zw, $z + w$, z^2, and w/z.
   $62 + 5i$, $5 - i$, $-45 + 28i$, and $-\frac{50}{53} - \frac{37}{53}i$.

3. Give the complete solution to $x^4 + 16 = 0$.
   $x^4 + 16 = 0$, 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 $x^3 + 8 = 0$, Solution is: $i\sqrt{3} + 1, 1 - i\sqrt{3}, -2$
   The fourth roots are the solutions to $x^4 + 16 = 0$, 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 $\omega = \frac{\overline{z}}{|z|}$

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 Theory And Applications Solutions Manual

Roman Wölfel

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