

# 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  $w/z$ .

$$62 + 5i, 5 - i, -45 + 28i, \text{ and } -\frac{29}{65} - \frac{27}{65}i.$$

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

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

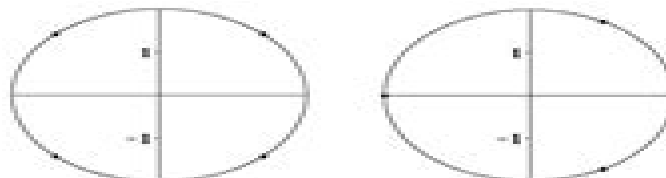
4. Graph the complex cube roots of 8 in the complex plane. Do the same for the four fourth roots of 16.

The cube roots are the solutions to  $z^3 + 8 = 0$ , 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.



5. If  $z$  is a complex number, show there exists  $\omega$  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

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

# Algebra Theory And Applications Solutions Manual

**Daniel F McAuley**



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