

# Solutions Manual, Linear Algebra Theory And Applications

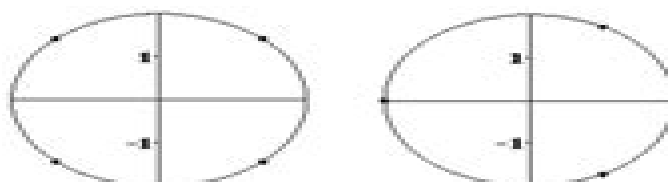
## F.12 Exercises

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

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

# Solutions Manual For Linear Algebra

**Lei Huang**



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