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### Elementary Linear Algebra with Applications

not emphasized that linear algebra can be carried out with any  $\mathbb{F}$ -field although there is an optional section on this topic, most of the book being devoted to either the real numbers or the complex numbers.

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### (PDF)Elementary Linear Algebra, Applications Version, 11th

Solutions Manual Elementary Linear Algebra B.1 Exercises 1.8 1. Let  $z = 5+i9$ . Find  $z^{-1}$ .  $(5+i9)^{-1} = 5^{-1} - 9^{-1}i$  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  $50/53 - 37/53i$ . 3. Give the complete solution to  $x^4 + 16 = 0$ .  $x^4 + 16 = 0$ , Solution is:  $(1+i)^{1/2}, (1+i)^{3/2}, (1-i)^{1/2}, (1-i)^{3/2}$ . 4.

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