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Solution. Let A Z be a nonempty subset. Consider the set A+ := f a ja 2Ag. Since the negative of a negative integer is a positive integer, we have that A+ N is a nonempty subset. By the Well-Ordering Principle, A+ has a minimal element, call it a 0. Thus, a 0 2A. We claim that a 0 is the largest element of A. Indeed, let a 2A be any element of A.

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1 Introduction 1.1 What is Algebra? If you ask someone on the street this question, the most likely response will be: "Something horrible to do with x, y and z". If you're lucky enough to bump into a mathematician then you might get something along the lines of: "Algebra is the abstract encapsulation of our intuition for composition".

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A solution is a set of numbers $s_1; s_2; ::::; s_n$ such that, substituting $x_1 = s_1; x_2 = s_2; ::::; x_n = s_n$ for the unknowns, all of the equations in System (1.1) hold. Linear Algebra is a theory that concerns the solutions and the structure of solutions for linear equations. As we progress, you will see that there is

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and Concepts

Description. For courses in Abstract Algebra. Designed for future mathematics teachers as well as mathematics students who are not planning careers in secondary education, this text offers a traditional course in abstract algebra along with optional notes that connect its mathematical content to school mathematics. Elementary number theory and rings of polynomials are treated before group theory.

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