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Solution. Let  $A \subseteq \mathbb{Z}$  be a nonempty subset. Consider the set  $A^+ := \{a \in \mathbb{Z} \mid a \in A\}$ . Since the negative of a negative integer is a positive integer, we have that  $A^+ \cap \mathbb{N}$  is a nonempty subset. By the Well-Ordering Principle,  $A^+ \cap \mathbb{N}$  has a minimal element, call it  $a_0$ . Thus,  $a_0 \in A$ . We claim that  $a_0$  is the largest element of  $A$ . Indeed, let  $a \in A$  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

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composition”.

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A solution is a set of numbers  $s_1; s_2; \dots; s_n$  such that, substituting  $x_1 = s_1; x_2 = s_2; \dots; x_n = s_n$  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

Linear Algebra As an Introduction to Abstract Mathematics

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