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Solution. Let $A \subseteq \mathbb{Z}$ be a nonempty subset. Consider the set $A^+ := \{a \in \mathbb{Z} \mid a \geq 0\}$. 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 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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