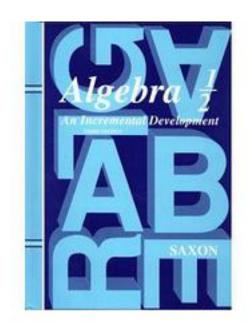
Algebra 1/2



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This is the second edition of a transitional math book designed to permit the student to move from the concrete concepts of arithmetic to the abstract concepts of algebra. The research of Dr. Benjamin Bloom has shown that long-term practice beyond mastery can lead to a state that he calls " automaticity. " When automaticity is attained at one conceptual level, the student is freed from the constraints of the mechanics of problem solving at that level and can consider the problems at a higher conceptual level. Thus, this book concentrates on automating

the concepts and skills of arithmetic as the abstract concepts of algebra are slowly introduced. The use of every concept previously introduced is required in every problem set thereafter. This permits students to work on attaining speed and accuracy at every conceptual level. Students often resist this practice because they feel that if they have already mastered a concept, no further practice is required. They do not realize that being able to work the problem slowly is not sufficient. They need to be reminded that mathematics is like other disciplines. For example, playing a musical instru- ment well requires long-term practice of the fundamentals. Playing football, golf, tennis, or any other sport well requires long-term practice and automation of fundamentals. Mathematics also requires this long-term practice.

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