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FOR Students have generally found  
algebra and trigonometry difficult  
subjects to understand and learn. Despite*

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*the publication of hundreds of textbooks in this field, each one intended to provide an improvement over previous textbooks, students of algebra and trigonometry continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems. Various interpretations of*



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*algebra and trigonometry terms also contribute to the difficulties of mastering the subject. In a study of algebra and trigonometry, REA found the following basic reasons underlying the inherent difficulties of both math subjects: No systematic rules of analysis were ever developed to follow in a step-by-step*

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*manner to solve typically encountered problems. This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps,*

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*making this task more burdensome than solving the problem directly due to the expectation of much trial and error.*

*Current textbooks normally explain a given principle in a few pages written by a mathematics professional who has insight into the subject matter not shared by others. These explanations are often*

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*written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of*

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*principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples*

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*typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations. Poorly solved examples*

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*such as these can be presented in abbreviated form which leaves out much explanatory material between steps, and as a result requires the reader to figure out the missing information. This leaves the reader with an impression that the problems and even the subject are hard to learn - completely the opposite of what an*

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*example is supposed to do. Poor examples are often worded in a confusing or obscure way. They might not state the nature of the problem or they present a solution, which appears to have no direct relation to the problem. These problems usually offer an overly general discussion - never revealing how or what is to be*



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*solved. Many examples do not include accompanying diagrams or graphs, denying the reader the exposure necessary for drawing good diagrams and graphs. Such practice only strengthens understanding by simplifying and organizing algebra and trigonometry processes. Students can learn the subject*

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*only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with their different ramifications. In doing the exercises by themselves, students find that they are required to devote considerable more time to algebra and trigonometry than to other subjects,*

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*because they are uncertain with regard to the selection and application of the theorems and principles involved. It is also often necessary for students to discover those "tricks" not revealed in their texts (or review books) that make it possible to solve problems easily.*

*Students must usually resort to methods*

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*of trial and error to discover these "tricks," therefore finding out that they may sometimes spend several hours to solve a single problem. When reviewing the exercises in classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining them to the class. Students*

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*often find it difficult to explain in a manner that holds the interest of the class, and enables the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations. This book is*

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*intended to aid students in algebra and trigonometry overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been selected from those most often assigned for class work*

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*and given on examinations. The problems are arranged in order of complexity to enable students to learn and understand a particular topic by reviewing the problems in sequence. The problems are illustrated with detailed, step-by-step explanations, to save the students large amounts of time that is*

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*often needed to fill in the gaps that are usually found between steps of illustrations in textbooks or review/outline books. The staff of REA considers algebra and trigonometry subjects that are best learned by allowing students to view the methods of analysis and solution techniques. This learning*



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*approach is similar to that practiced in various scientific laboratories, particularly in the medical fields. In using this book, students may review and study the illustrated problems at their own pace; students are not limited to the time such problems receive in the classroom. When students want to look*

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**students of finite and discrete math continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems.**

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**Various interpretations of finite and discrete math terms also contribute to the difficulties of mastering the subject. In a study of finite and discrete math, REA found**

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**the following basic reasons underlying the inherent difficulties of finite and discrete math: No systematic rules of analysis were ever developed to follow in a**



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**step-by-step manner to  
solve typically  
encountered problems. This  
results from numerous  
different conditions and  
principles involved in a  
problem that leads to many**

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**possible different  
solution methods. To  
prescribe a set of rules  
for each of the possible  
variations would involve  
an enormous number of  
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**this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few**

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**pages written by a finite  
and discrete math  
professional who has  
insight into the subject  
matter not shared by  
others. These explanations  
are often written in an**

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**abstract manner that  
causes confusion as to the  
principle's use and  
application. Explanations  
then are often not  
sufficiently detailed or  
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**the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their**

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**applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover**

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that which has long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in



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number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may

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**be assigned for homework  
or given on examinations.  
Poorly solved examples  
such as these can be  
presented in abbreviated  
form which leaves out much  
explanatory material**

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**between steps, and as a result requires the reader to figure out the missing information. This leaves the reader with an impression that the problems and even the**

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**subject are hard to learn  
- completely the opposite  
of what an example is  
supposed to do. Poor  
examples are often worded  
in a confusing or obscure  
way. They might not state**

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**the nature of the problem  
or they present a  
solution, which appears to  
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the problem. These  
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- never revealing how or what is to be solved. Many examples do not include accompanying diagrams or graphs, denying the reader the exposure necessary for drawing good diagrams and

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**graphs. Such practice only  
strengthens understanding  
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**exercises themselves and reviewing them in class, obtaining experience in applying the principles with their different ramifications. In doing the exercises by**



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**themselves, students find that they are required to devote considerable more time to finite and discrete math than to other subjects, because they are uncertain with**

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**regard to the selection  
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**texts (or review books)  
that make it possible to  
solve problems easily.  
Students must usually  
resort to methods of trial  
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**finding out that they may  
sometimes spend several  
hours to solve a single  
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**enables the remaining  
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readers can readily and safely experiment with to achieve desired learning outcomes, and build confidence in changing their methods of teaching. Research on

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learning clearly demonstrates that learning is not one thing, but many. The learning associated with developing a skill is different from the

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learning associated with understanding and remembering information, which in turn is different from thinking critically and creatively, solving

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problems, making decisions, or change paradigms in the light of evidence. Differing outcomes involve different ways of learning and teaching



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strategies. The authors provide the reader with a conceptual approach for selecting appropriate teaching strategies for different types of content, and

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for achieving specific learning objectives.

They demonstrate through examples how a focused and purposeful selection of activities improves student performance, and

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in the process makes for a more effective and satisfying teaching experience. The core of the book presents a chapter on each of the seven ways of learning.

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Each chapter offers a full description of the process, illustrates its application with examples from different academic fields and types of institutions,

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clearly describes the teacher's facilitation role, and covers assessment and online use. The seven ways of learning are: Behavioral Learning; Cognitive

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Learning; Learning  
through Inquiry;  
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Experiential Learning.  
Along the way, the  
authors provide the  
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methodologies so that she or he can confidently go beyond the “seven ways” to adapt or adopt further strategies. This is the ideal companion for



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bridge from the  
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