Instructions for *Algebra Plotter Plus*

Graphing • Quizzes • Explorations

For use with Apple® IIe (128K) and IIGS computers

About the Disk

This disk will help you and your students explore important topics in algebra, such as two-dimensional graphs, matrices, and statistics.

PLOTTER Programs

The six PLOTTER programs on the disk permit the user to enter equations and obtain graphs and tables. You can use the programs for demonstration purposes during class lectures and discussions. Also, your students can use the programs for such purposes as verifying their own graphs, approximating roots of equations, and investigating the effect of parameter changes on families of equations.

QUIZ Programs

The four QUIZ programs on the disk present randomly chosen graphs for which the user must find equations. The graphs of the user's equations are superimposed on the original graphs so that they can be visually checked for accuracy.

Other Programs

The MATRIX REDUCER program on the disk helps the user solve systems of linear equations by performing row operations on the augmented matrices for the systems.

There are two statistics programs on the disk. The STATISTICS SPREADSHEET program allows the user to create data sets for which statistics, such as means and standard deviations, and statistical graphs, such as histograms and scatter plots, can be obtained. (If the user wants to save data while using this program, a ProDOS-formatted disk is needed.) The SAMPLING EXPERIMENT program helps the user explore the nature of sampling and test hypotheses about sample means.

You can find suggestions for using all the programs on the disk in the © 1990 Teacher's Editions of *ALGEBRA, Structure and Method, Book 1* and *ALGEBRA AND TRIGONOMETRY, Structure and Method, Book 2.*

Using the Disk

If the computer is off, insert the disk into the boot drive (usually labeled Drive 1) and turn on the computer. If the computer is already on, insert the disk into the boot drive and press the <CONTROL>, <APPLE>, and <RESET> keys simultaneously.

The disk is menu-driven throughout: You are presented options and asked to choose one. To make your choice, use the arrow keys to highlight the option you want, and then press <RETURN> to get your selection.

The disk is also self-contained: Help screens are available throughout the programs to describe options and procedures. To obtain a help screen at any time, simply press <?>.

Using a Printer

The PLOTTER programs as well as MATRIX REDUCER, STATISTICS SPREADSHEET, and SAMPLING EXPERIMENT have options to print. The recommended printers are Epson and ImageWriter, but you can also use an Epson or some other parallel printer with a Grappler interface card. To use a print option, you must not only indicate what type of printer you have, but also what slot the printer interface card is in (usually Slot 1). Before using a print option, be sure the printer is turned on.

(*See other side.*)

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