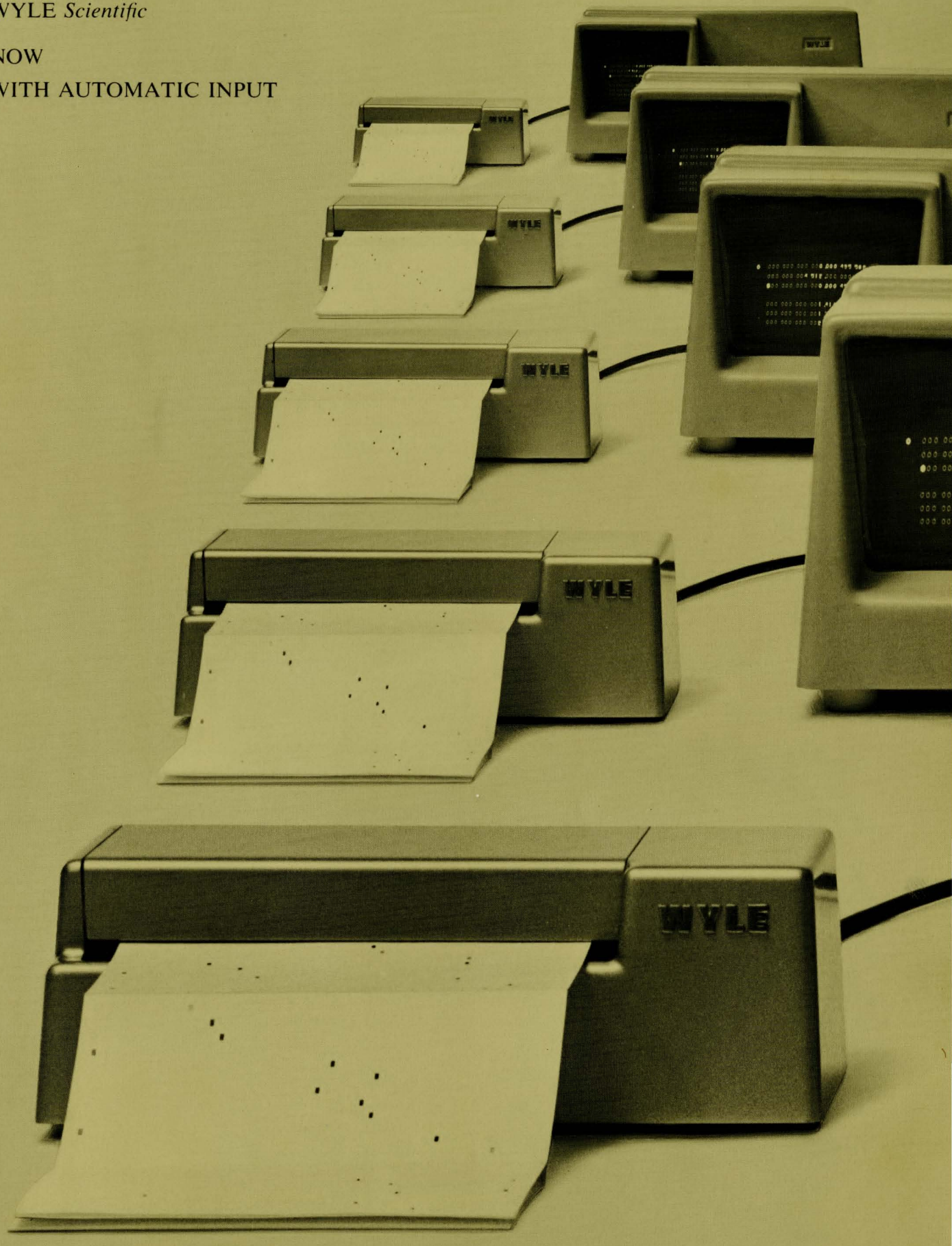
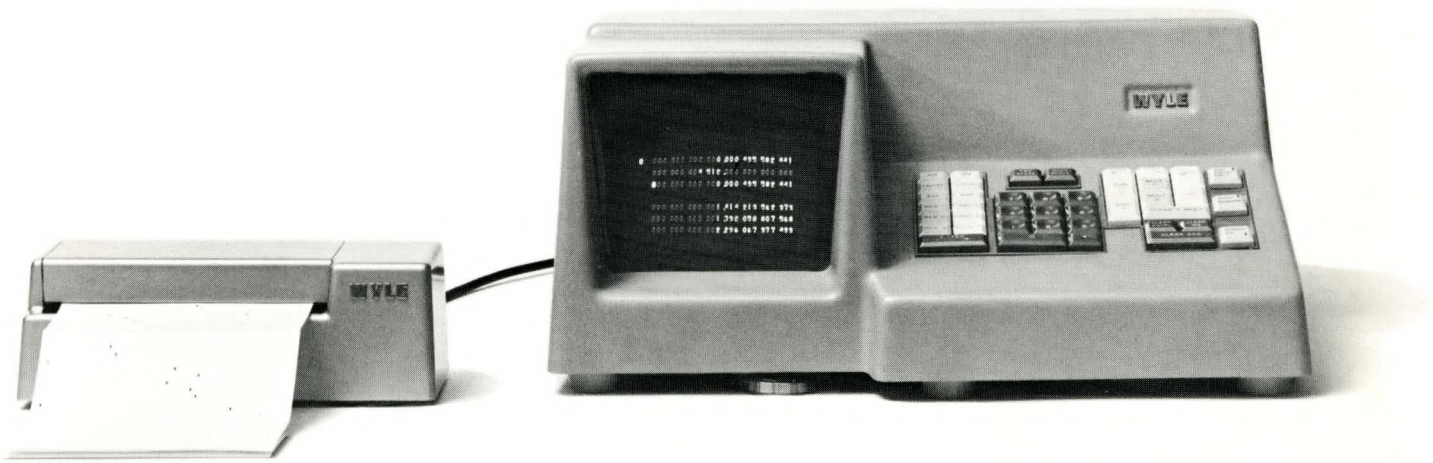
THE WYLE *Scientific*

NOW

WITH AUTOMATIC INPUT





THE WYLE *Scientific*
WITH *Programmed Automatic Card*
(PAC) INPUT SYSTEM

offers, for the first time, automatic entry of formulas into a desk-top computational machine. The combination is, in effect, a small, portable computer, priced at just $4350.

The Wyle *Scientific,* when used without the PAC System, is the most capable desk-top computational machine ever developed for performing complex scientific and engineering calculations. Such calculations usually call for repeated use of certain formulas. PAC can do the entire job of repeatedly entering such formulas. It performs eight problem-solving operations per second, yet allows for keyboard entry of variables. This automated input greatly increases speed and ease of operation and eliminates the element of operator error in the entering of the formulas.

The *Programmed Automatic Card* Input System is a uniquely compact, reliable, and low-cost punchcard reader. PAC cards are easily prepared by the operator at his desk, without need for special equipment or computer training.

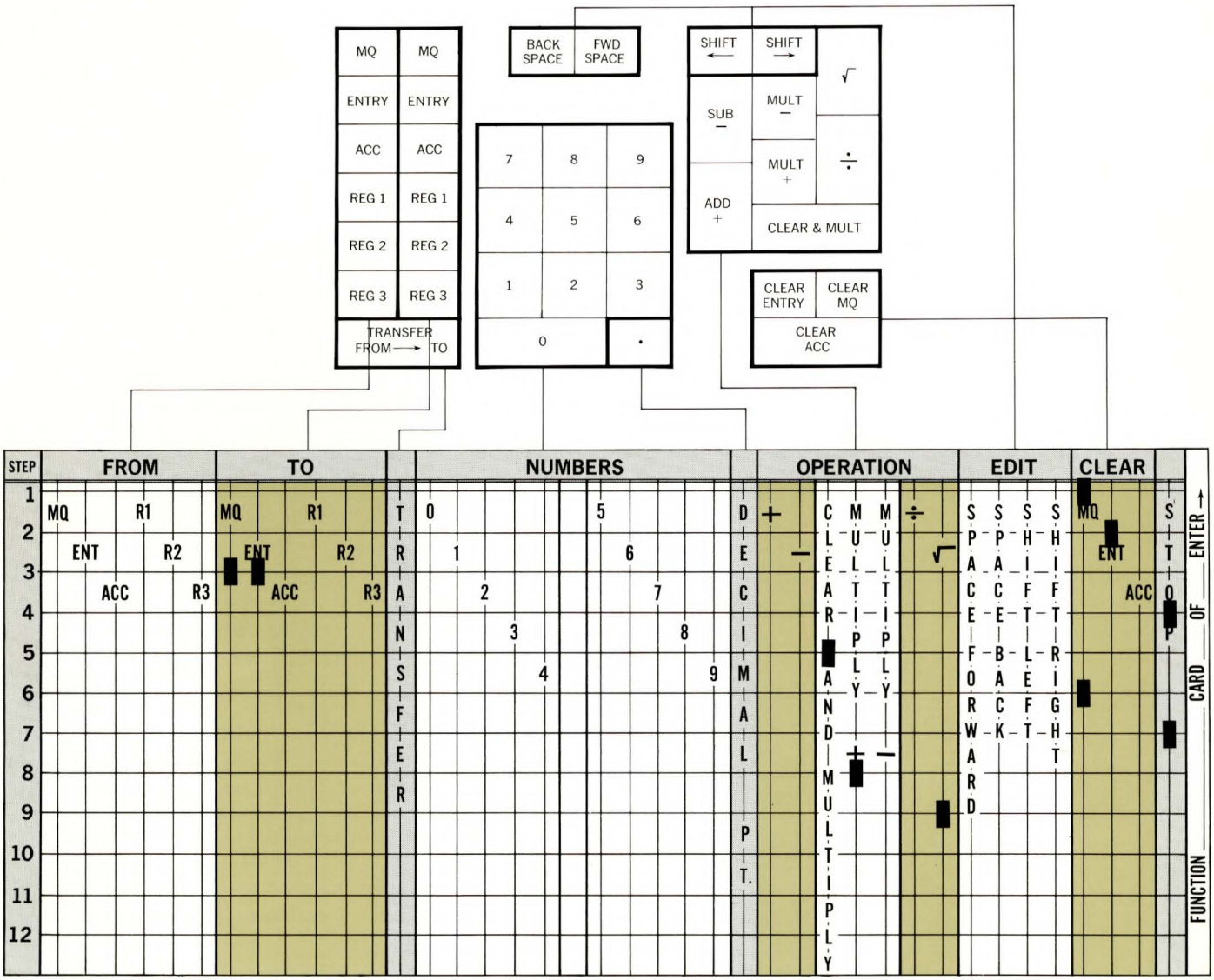
HERE'S HOW SIMPLE IT IS TO PROGRAM YOUR OWN PROBLEMS

Below is a diagram of the Wyle *Scientific* keyboard and a reproduction of the Wyle PAC card, designed to correspond with the keyboard functions. Each card provides for programming up to 12 steps of a problem, as numbered at the left side of the card. To prepare the card, just determine the necessary steps, including "Stop" wherever variables are to be entered. Then, using a simple stylus to punch out prescored holes, you put the steps into a card, one step per horizontal row.

In the example pictured, the card is punched to solve the hypotenuse of a right triangle ($C = \sqrt{a^2 + b^2}$).

STEPS

1. CLEAR MQ.
2. CLEAR ENTRY.
3. TO MQ and TO ENTRY, simultaneously (activates these registers to receive "a").
4. STOP (for manual keying of "a," which enters simultaneously into MQ and ENTRY registers. The PAC input is restarted manually).
5. CLEAR & MULT. (Clears accumulator and squares "a," by multiplying together the contents of MQ and ENTRY, leaving "a^2" in ACC register.)
6. CLEAR MQ.
7. STOP (for manual keying of "b," which enters simultaneously into MQ and ENTRY. The PAC input is restarted manually).
8. MULT +. (Squares "b," by multiplying together the contents of MQ and ENTRY, and adds result to "a^2" in ACC registers.)
9. $\sqrt{}$ (Extracts square root of $a^2 + b^2$, root appearing in MQ.)



To program problems requiring more steps than are provided for on each card, you continue programming on additional cards. When you feed the prepared cards into PAC, the *Scientific* operates automatically until a "Stop" is reached. You then insert the variable through the keyboard, and automatic operation is resumed until another variable is required or the problem is completed.

Price of the WYLE *Scientific* with PAC	$4350
Price of the WYLE *Scientific* without PAC	$3950
Price of the WYLE *Programmed Automatic Card* reader (can be plugged into any WYLE *Scientific*)	$ 400

Characteristics of WYLE PAC reader

Weight	6 pounds
Height	4 inches
Length	12 inches
Depth	6 inches
Speed	8 operations per second
Power	25 watts, 110 volts A.C.

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