

PROBLEM.

$$\text{INT}(X^N + X * \text{SIN}(X^2), X)$$

SOLUTION.

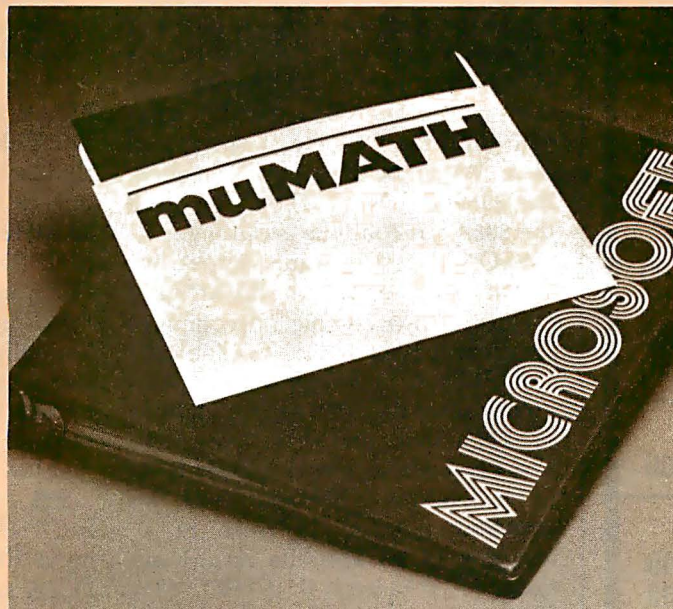
Surprised? You should be. Because until now, no software could solve anything but the most basic arithmetic problems without a series of complicated steps.

A big disadvantage? If you use a microcomputer for scientific, educational or engineering applications, you bet it is. That's why Microsoft has come up with a solution of its own. muMath.

muMath is a symbolic math package you'll recognize immediately as a major advance in microcomputer software.

muMath lets you efficiently and accurately perform the most complex mathematical operations: Exact, infinite precision rational arithmetic. Unbound variables. Complex expressions (even equations may be included). Exact solution of algebraic equations. Plus logarithmic, exponential and trigonometric simplifications and transformations.

That's right. It does in an instant what took you years



to learn at school. Rational arithmetic. Algebra. Trigonometry. Transcendental functions. Symbolic differentiation (including ordinary and partial derivatives.) Symbolic integration of indefinite and definite integrals. Matrix arithmetic and algebra.

Trigonometric simplification? But of course. Just type:

```
?SIN(2*Y)*(4*COS(X)^3
-COS(3*X)+SIN(Y)*COS
(X+Y+PI)-COS(X-Y));
Then instantly muMath
returns:
@4*SIN(Y)*COS(X)*COS(Y).
Adding fractions? Need
you ask?
?1/3+5/6+2/5+3/7;
@419/210.
```

muMath is written in muSIMP, which is included in the muMath package.

muSIMP is an applicative, recursive language, ideal for describing complex mathematical concepts.

Because of its highly interactive nature and hierarchical structure, muMATH is an excellent math teaching device, from simple arithmetic to calculus.

muMATH is currently available for the CP/M® operating system.

The complete system, including muMATH and muSIMP on disk and documentation is \$250. Runs under CP/M.

Just what you need? We thought so. Shoot some questions at us about muMATH. We have all the answers.

Also new from Microsoft: the muLISP interpreter for CP/M. An efficient and reliable LISP system fully capable of supporting serious artificial intelligence efforts. \$200.

CP/M is a registered trademark of Digital Research.

MICROSOFT

10800 NE Eighth
Suite 819
Bellevue, WA 98004
206-455-8080
Telex 328945

We set the standard.