

Quadtratic

Prompt A,B,C

$B^2-4AC \rightarrow D$

If $D < 0$

Disp "NON REAL"

Disp "+", $(-B + \sqrt{D}) / (2A)$

Disp "-", $(-B - \sqrt{D}) / (2A)$

$-B / (2A) \rightarrow E$

Pause

Disp "LINE", E

Disp "VERTEX", $AE^2 + BE + C$

Factors

Prompt X

$1 \rightarrow A$

Repeat $A > \sqrt{X}$

$A + 1 \rightarrow A$

$X / A \rightarrow B$

If $B - \text{int}(B) = 0$

Disp A,B,A+B,B-A," "

If $B - \text{int}(B) \neq 0$

Pause

End

Volume – Surface Area

Prompt B,P,H

Disp "V",BH

Disp "A", $2B + PH$

Disp "L",PH

Disp " $1/3$ ",BH/3

Pause

Triangle

Disp "A=SHORT C=LONG"

Prompt A,B,C

If $A + B > C$

Then

Disp "YES"

Else

Disp "NO"

Stop

End

If $A^2 + B^2 = C^2$

Disp "RIGHT"

If $A^2 + B^2 > C^2$

Disp "OBTUSE"

If $A^2 + B^2 < C^2$

Disp "ACUTE"

MAD

$\text{mean}(L_1) \rightarrow X$

Disp "MEAN",X

$L_1 - X \rightarrow L_2$

$\text{abs}(L_2) \rightarrow L_2$

Disp "MAD", $\text{mean}(L_2)$

Hypotenuse

Prompt A,B

$\sqrt{A^2 + B^2} \rightarrow C$

Disp C

Leg

Prompt C,A

$\sqrt{C^2 - A^2} \rightarrow B$

Disp B