

SSS Program

Key directions	Screen displayed after keying
Go to [PRGM], Go to NEW, [ENTER]	
At this screen, [S][S][S][ENTER] (that is your name for the program)	PROGRAM Name=
Key in the prompt at: [PRGM], use arrow keys to go to I/O.	PROGRAM:SSS : █
Choose 2.: Prompt by keying [2]	CTL I/O EXEC 1. Input 2. Prompt
Key in the letters in the equation by using the alpha key: [ALPHA] [MATH][.] [ALPHA] [APPS][.] [ALPHA] [PRGM][ENTER]	PROGRAM:SSS : Prompt █
For the If, Then, Else, End functions, go to [PRGM], CTL	PROGRAM:SSS : Prompt A,B,C, : █
The cursor is already on 1: If so key [ENTER]	CTL I/O EXEC 1: If 2: THEN 3: ELSE 7: END
Key in [ALPHA][MATH] [2 <sup>nd</sup> ][MATH]	PROGRAM:SSS : Prompt A,B,C, : If
[3]	TEST LOGIC 1:= 2: ≠ 3: >
[ALPHA] [APPS]	PROGRAM:SSS : Prompt A,B,C, : If A>
Insert the word “and” : [2 <sup>nd</sup> ][MATH]	PROGRAM:SSS : Prompt A,B,C, : If A>B
Choose LOGIC and [ENTER] for the word “and”	TEST LOGIC 1: and 2: or 3: xor
[ALPHA][MATH] [2 <sup>nd</sup> ] [MATH] LOGIC [ENTER] [ALPHA] [PRGM] [ENTER]	PROGRAM:SSS : Prompt A,B,C, : If A>B and A>C

[PRGM] CTL	CTL I/O EXEC 1: If 2: THEN 3: ELSE 7: END
[2] [ENTER]	PROGRAM:SSS : Prompt A,B,C, : If A>B and A>C : Then : ■
Key in the following expression: [2 <sup>nd</sup> ] [COS] for $\text{Cos}^{-1}$ key in [ ( ] [ ALPHA ] [MATH ] [x <sup>2</sup> ] [— ] [ ALPHA ] [APPS ] [x <sup>2</sup> ] [— ] [ ALPHA ] [PRGM] [x <sup>2</sup> ] [ ) ] [ ÷ ] [ ( ] [(-) ] [ 2 ] [×] [ ALPHA ] [APPS] [×] [ ALPHA ] [PRGM] [ ) ] [ ) ] [STO →] [ALPHA] [x <sup>2</sup> ] [ENTER]	PROGRAM:SSS : Prompt A,B,C, : If A>B and A>C :Then : $\text{cos}^{-1}((A^2-B^2-C^2)/(-2*B*C))\rightarrow I$ : ■
[PRGM] I/O [ 3 ] this is to display the results.	PROGRAM:SSS : Prompt A,B,C, : If A>B and A>C :Then : $\text{cos}^{-1}((A^2-B^2-C^2)/(-2*B*C))\rightarrow I$ : Disp ■
[ALPHA] [+] for the quote marks	PROGRAM:SSS : Prompt A,B,C, : If A>B and A>C :Then : $\text{cos}^{-1}((A^2-B^2-C^2)/(-2*B*C))\rightarrow I$ : Disp “ ■
Input “ANGLE OPP IS “ To input a space between letters, [ALPHA] [ 0 ] To lock the alphabet function first [2 <sup>nd</sup> ] [ALPHA]	PROGRAM:SSS : Prompt A,B,C, : If A>B and A>C :Then : $\text{cos}^{-1}((A^2-B^2-C^2)/(-2*B*C))\rightarrow I$ : Disp “ANGLE OPP IS”
Remove alphabet lock by keying [ ALPHA ] [,] [ALPHA] [X <sup>2</sup> ] [ENTER]	PROGRAM:SSS : Prompt A,B,C, : If A>B and A>C :Then : $\text{cos}^{-1}((A^2-B^2-C^2)/(-2*B*C))\rightarrow I$ : Disp “ANGLE OPP IS”, I : ■
[PRGM] [ 3 ]	CTL I/O EXEC 1: If 2: Then 3. Else

[ENTER]	PROGRAM:SSS : Prompt A,B,C, : If A>B and A>C :Then : $\cos^{-1}((A^2-B^2-C^2)/(-2*B*C)) \rightarrow I$ : Disp “ANGLE OPP IS”, I : Else
[PRGM] CTL [ENTER]	:If
[ALPHA][MATRIX] [2 <sup>nd</sup> ][MATH][3][ALPHA][PRGM] [2 <sup>nd</sup> ][MATH] LOGIC [ENTER] [ALPHA] [MATRIX] [2 <sup>ND</sup> ] [MATH] [3] [ALPHA][MATH][ENTER]	:If B > C and B > A :
[PRGM] CTL [2] [ENTER]	:Then :
[2 <sup>nd</sup> ] [COS] for $\cos^{-1}$ key in [ ( ] [ ALPHA ] [MATRIX] [x <sup>2</sup> ] [— ] [ ALPHA ] [MATH ] [x <sup>2</sup> ] [— ] [ ALPHA ] [PRGM] [x <sup>2</sup> ] [ ) ] [ ÷ ] [ ( ] [(-) ] [ 2 ] [×] [ ALPHA ] [MATH] [×] [ ALPHA ] [PRGM] [ ) ] [ ) ] [STO →] [ALPHA][2] [ENTER]	: $\cos^{-1}((B^2-A^2-C^2)/(-2*A*C)) \rightarrow Z$ : ■
[PRGM] I/O [3] Input “ANGLE OPP IS”,Z To input a space between letters, [ALPHA] [ 0 ] To lock the alphabet function first [2 <sup>nd</sup> ] [ALPHA]	:Disp “ANGLE OPP IS”, Z
[PRGM] CTL [3] [ENTER]	:Else
[2 <sup>nd</sup> ] [COS] for $\cos^{-1}$ key in [ ( ] [ ALPHA ] [PRGM][x <sup>2</sup> ] [— ] [ ALPHA ] [MATH] [x <sup>2</sup> ] [— ] [ ALPHA ] [MATRIX] [x <sup>2</sup> ] [ ) ] [ ÷ ] [ ( ] [(-) ] [ 2 ] [×] [ ALPHA ] [MATH] [×] [ ALPHA ] [MATRIX] [ ) ] [ ) ] [STO →] [ALPHA][2] [ENTER]	: $\cos^{-1}((C^2-A^2-B^2)/(-2*A*B)) \rightarrow G$ : ■
[PRGM] I/O [3] Input “ANGLE OPP IS”,G To input a space between letters, [ALPHA] [ 0 ] To lock the alphabet function first [2 <sup>nd</sup> ] [ALPHA]	:Disp “ANGLE OPP IS”, G
[PRGM] CTL [7] [ENTER]	: End