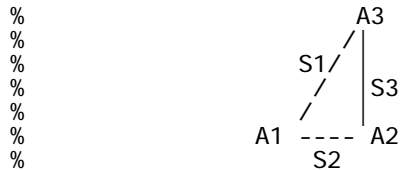


SSA New.txt

```
% SSA
% This program solves any triangle, if we know any
% two sides and the angle after the second one. It computes
% the remaining data and outputs the triangle data
% as SIDE ANGLE SIDE ANGLE SIDE ANGLE, clockwise
% or counterclockwise, depending on the order in
% you entered your data.
% By L.Linares 2011
```



```
% VERY IMPORTANT: To type this program on a regular
% text file, I had to replace some HP50 keys by
% certain strings. So ...
% Where I wrote      you type
% *                  [multiply key]
% ACOS                [WHITE SHIFT] COS
% ^                  [y to the x key]
% >=                 [WHITE SHIFT] PRG/TEST/F6
% >                  [WHITE SHIFT] PRG/TEST/F4
% Sqrt                press square root key (*)
% ->TAG              [WHITE SHIFT] PRG/TYPE/->TAG
% ->                 [RED SHIFT] [zero key]
% {new line}         [RED SHIFT] [dot key]
% (*) Do NOT type the letters Sqrt ... it won't work!
% Usage: Enter the three side lengths on the stack
% 3: S1
% 2: S2
% 1: A2(in degrees)
% Then run the program!
% This problem may have two solutions. After displaying
% the first solution, the program halts, and waits for
% your command [WHITE SHIFT] CONT, to display the
% second solution.
% VERY IMPORTANT: Store this program as 'SSA',
% because the other four programs in this series
% will "call" this one by that name!
% This program is provided on a "as is" basis, for
% reference ONLY, and no warranty of its accuracy or
% correctness is made. If you use it, you use it at your
% own risk.
```

```
<<
-17 FS?
-> S1 S2 A2 X
<<
IF 'X==1' THEN DEG END
'S2 * COS(A2)' EVAL
'SQRT(S1^2 - S2^2 * SIN(A2)^2)' EVAL
-> X Y
<<
IF 'S1 >= S2*SIN(A2)' THEN
S1 S2 X Y + 'SSS' EVAL
IF 'X > Y' THEN
HALT S1 S2 X Y - 'SSS' EVAL
END
END
>>
IF 'X==1' THEN RAD END
>>
```