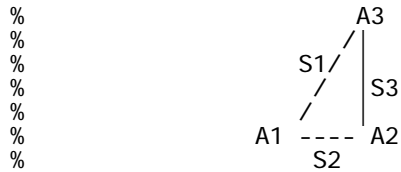


SAS.txt

```
% SAS
% This program solves any triangle, if we know any
% two sides and the angle between them. 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]
% SQRT                press square root key (*)
% ->TAG               [WHITE SHIFT] PRG/TYPE/->TAG
% ->                  [RED SHIFT] [zero key]
% (*) Do NOT type the letters SQRT ... it won't work!
% Usage: Enter on the stack
%      3: S1
%      2: A1(in degrees)
%      1: S2 ... and call this program.
```

```
% VERY IMPORTANT: Store this program with the name 'SAS'
% as other programs in this series will call it.
% 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 A1 S2 X

<< IF 'X==1' THEN DEG END
' SQRT(S1^2+S2^2-2*S1*S2*cos(A1))' EVAL

-> S3

<< S1 S2 S3 'SSS' EVAL >>
IF 'X==1' THEN RAD END

>>

>>
```