

ASA. txt

```
% ASA
% This program solves any triangle, if we know any
% two angles and the side 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 2006
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%
% 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: A3(in degrees)
% 2: S1
% 1: A1(in degrees) ... and call this program.
%
% VERY IMPORTANT: Store this program under the name 'ASA'.
% 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.
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<< -17 FS?
-> A3 S1 A1 X

<<
  IF 'X==1' THEN DEG END
  'SIN(A3) * S1/SIN(180 - A1 - A3)' EVAL
-> S2

<< S1 A1 S2 'SAS' EVAL >>
  IF 'X==1' THEN RAD END

>>

>>
```