```
sin - cos key sequence.txt
```

They can also be solved using the following key stroke sequence on a calculator with three memories.

This sequence actually solves for Hc in this order:
$(\cos$ LHA $x \cos d e c x \cos \mid a t)+(\sin \mid a t x \sin d e c)=a r c s i n c$
$\qquad$

Assumed Lat
2nd DMS-D. (changes to decimal degree format)
STO 1 (stored A. LAT in 1)
Declination
2nd DMS-D.D
STO 2 (stored DEC in 2)
GHA
2nd DMS-D.D

As sumed Longitude
2nd DMS - D.D
$=$ (computed LHA)
STO 3 (LHA stored in 3)
COS
X
RECALL 2 (recalled declination)
COS
X
RECALL 1 (recalled Assumed I atitude)
COS
$\stackrel{+}{\text { RECALL }} 1$ (recalled A. LAT)
SIN
X
RECALL 2 (recalled DEC)
SIN
2nd SIN (ARCSIN, computed HC)
2nd D. D- DMS (changes decimal degree Hc to degree-minute-second so it
can be written down)
2nd DMS - D. D (changes it back)
COS
1/x (converts COS Hc to SEC Hc)
X
RECALL 3 (recalled LHA)
SIN
X
RECALL 2 (recalled DEC)
sin - cos key sequence.txt

2nd SIN (ARCSIN, computed Z)
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