

To Run TI - 82 & TI - 83 Plus SR Program

Press **PRGM** & select the SR Program

Press **ENTER**

Press **ENTER**

Key in numerical value of LHA & Press **ENTER**

Key in numerical value of LAT & Press **ENTER**

Key in numerical value of DEC & Press **ENTER**

All values are entered as decimal degrees & If LAT & DEC have contrary names enter DEC as a negative value

The Calculator Screen will then Display the value of HC & Z

Sight Reduction Program For TI - 82 & TI - 83 Plus

PROGRAM: SR

:Input "LHA", M

:Input "LAT", L

:Input "DEC", D

: $\sin^{-1}(\cos(M) \cdot \cos(L) \cdot \cos(D) + \sin(L) \cdot \sin(D)) \rightarrow H$

:Disp "HC", H

: $\cos^{-1}((\sin(D) - (\sin(L) \cdot \sin(H))) / (\cos(L) \cdot \cos(H))) \rightarrow Z$

:Disp "Z", Z

:Disp "END"

:END