**AZIMUTH AND HEIGHT ABOVE HORIZON OF A STELLAR OBJECT**

**Name: *starfind v2.0***

Given the date, time, timezone + DST, your location and the coordinates of a star

( Right ascension and declination for 2000.0) this program calculates the azimuth ( S = 0° ) and the elevation above horizon and shows the result in a simple plot ( northern hemisphere on page 1.3, southern hemisphere on page 1.4 ) .

Transfer the program to MyLib and set angle mode to “**DEGREE**“

To run the program enter on page 1.2 of the document:

***Starpos(yy,mm,dd,time,zone,lat,lon,r,d)***, where:

**yy,mm,dd** = year, month, day of observation

**time** = your local time; **zone** = time zone ( negative if W of Greenwich) including DST

**lat, lon** = latitude, longitude of your location in dd°.mmss ( positive for N and E ).

**r** = Right ascension in hh.mmss ; **d** = declination in dd°,mmss of the object.

***New in release 2.0:***

Instead of **r** and **d** you may pick a star from a list on page 1.5 ( stellar objects of your choice may be added there ! ). In this case key in the number of the star in **r** and **enter 0 for d** ! For stars

below horizon page 1.4 shows the plot for the southern hemisphere.

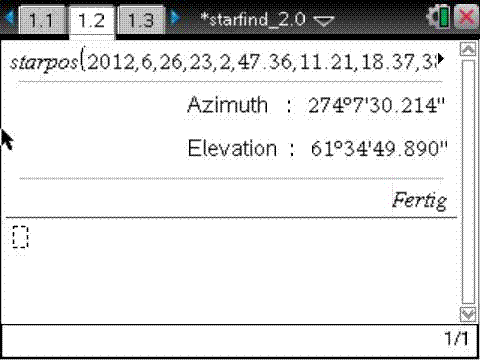
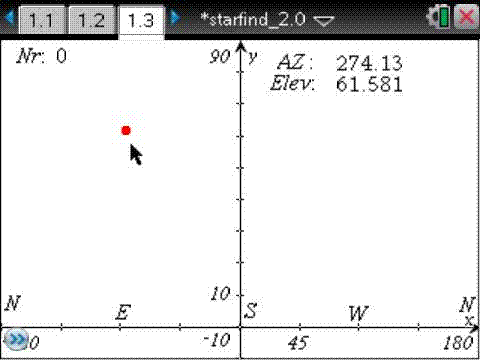
**EXAMPLE:**

Where is Vega (  Lyrae, RA = 18h 37’ , Decl = 38° 47’ ) located on June 26th , 2012 at 23 o’clock

( 11 pm ) at observation point N 47°36’ E 11°21’ ? ( timezone = 1 + DST = **2** )?

***starpos(2012,6,26,23,2,47.36,11.21,18.37,38.47)***

* Azimuth : 274° 7’ 30.214’’
* Elevation : 61° 34’ 49.890 ‘’

 Switch to page 1.3 : 

As the azimuth starts at S, the plot shows 274.13 - 360 = **- 85.87°** ( ~ E ) on page 1.3 !

A code number identifies the star in the list or shows “**0**” for a “manual” entry!

As bugs cannot ruled out, check the results you get from the program. The author will not be liable for damages arising out of the use or inability to use this program!

Claus Dachselt