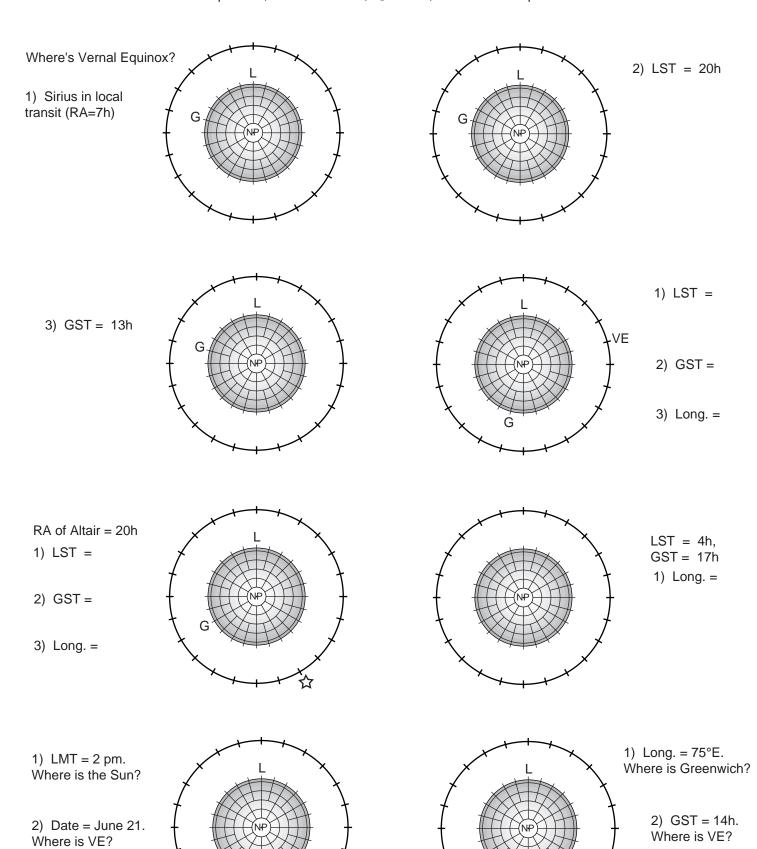
AST101: Longitude Worksheet #2

L = local position, G = Greenwich, \odot = Sun, VE = Vernal Equinox = 0hr RA



3) LST = ?

3) Date = Sept. 23.

Where is Sun?

Definitions of Time

Local Mean Solar Time (LMT) = Mean sun's position relative to the meridian **Greenwich Mean Time (GMT)** = Local Mean Solar Time for Greenwich **Universal Time (UT)** = Same as Greenwich Mean Time

Local Sidereal Time (LST) = Right Ascension on the meridian = Object with known RA on meridian

- = Position of Vernal Equinox relative to meridian (Hour Angle)
- = Position of object with known RA relative to meridian

Greenwich Sidereal Time (GST) = Local Sidereal Time for Greenwich, England