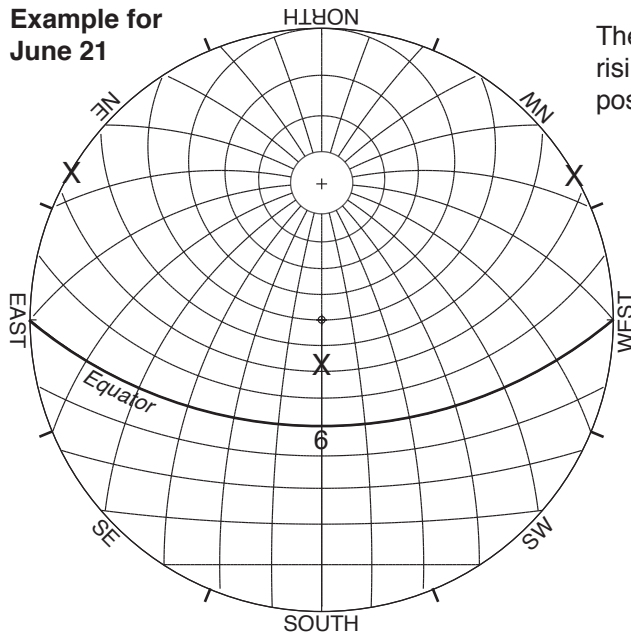# AST 101: Take-home #5, Due October 16

NAME _____
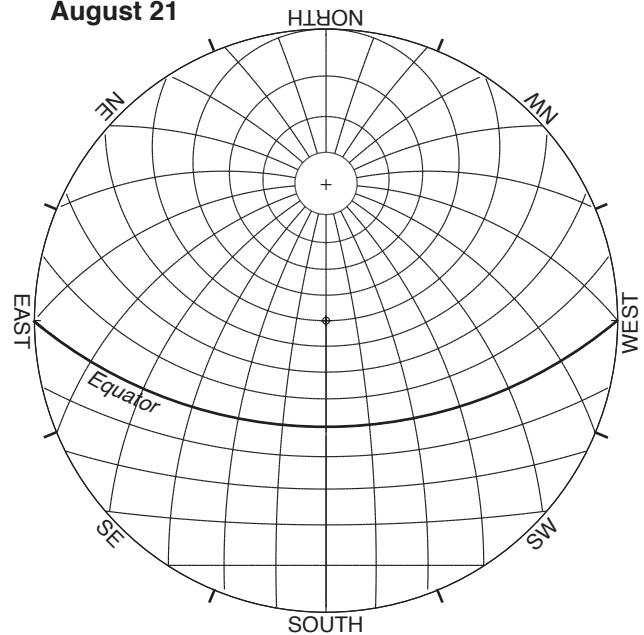
Example for June 21

The grid at left is an example showing the Sun's rising position, noon position, and setting position for June 21 (RA = 6h, Dec = +23.5)

RA lines are 1h apart.
Dec lines are 10 apart.

August 21

Exercise:

Using the RA and Dec of the sun for August 21 and February 7 as determined in class and written on your Seasons Data Sheet, place an 'X' on the grids at right to represent the Sun's noon position (apparent local time), the Sun's rising and setting position for August 21 (top grid) and February 7 (lower grid).

From the grid diagrams estimate the Sun's rising azimuth and setting azimuth to the nearest 16th of the compass, and the Sun's noon altitude in degrees, then write them in the corresponding blocks of the Seasons Data Sheet.

Use the diagrams to estimate the length of day (daylight hrs) and times of sunrise and sunset for the same two dates. Write these estimates in the corresponding blocks of the Seasons Data Sheet.

Turn in the Seasonal Data Sheet and this grid diagram at the start of next class, October 16.

February 7