AST101 Quiz #4

Take-home, due October 13

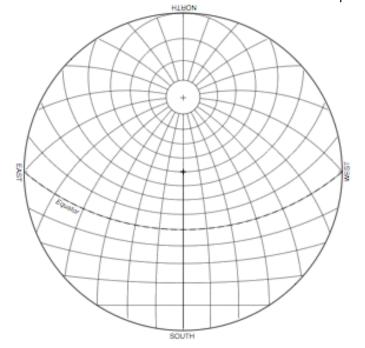
Name:

For questions 1 through 5, the local apparent solar time for the diagram below is 8 am. The sidereal time is 14h.

1. What is the sun's RA?

The RA lines on the diagram are 1 hour apart; the declination lines are 10° apart.

- 2. What is the approximate date?
- 3. What is the sun's Declination?
- 4. Plot an "X" on the diagram to mark the sun's location.
- 5. The sun is rising in the east-southeast. Where will it set?



- 6. If the sidereal time is 5h and the sun's RA is 2h, what is the local apparent solar time (remember am or pm)?
- 7. In the situation for question #6, what is the approximate date?
- 8. In the situation for question #6, what is the approximate sun's Declination?