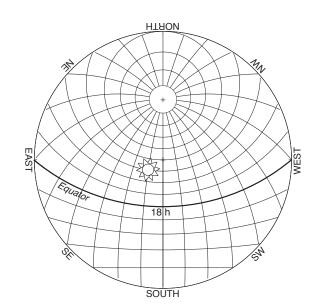
AST101 Take-home #4

Due October 9

Name:

For questions 1–5 use the diagram at right. The RA lines on the diagram are 1 hour apart; the declination lines are 10° apart.

- 1. What is the sidereal time?
- 2. What is the Sun's RA?
- 3. What is the Sun's Declination (remember + or -)?
- 4. What is the local apparent solar time (remember am or pm)?



- 5. In what direction will the Sun rise (to the <u>nearest</u> 16th of the compass: NE, NNE, NE, ENE, and so forth)?
- 6. If the sidereal time is 10h and the sun's RA is 5h, what is the local apparent solar time (remember am or pm)? Blank grid on back for scratch use.

