

SCORE
(5 pts max)

ASTRONOMY 2
THIRD HOUR SESSION "D"
ACTIVITY: Constellation Charts: Part II –
Ecliptic, Seasons, Precession

NAME

DATE ID#

1. What are the Right Ascension and Declination coordinates for the star _____ in the constellation of _____ ?

<input type="text"/>	<input type="text"/>
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2. Other than stars, name three other types of celestial objects plotted on the charts.

<input type="text"/>	<input type="text"/>	<input type="text"/>
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3. What is the name of the star at RA = _____ and Dec = _____ ?
From the chart legends, what type of star is it and what is its magnitude?

<input type="text"/>	<input type="text"/>	<input type="text"/>
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4. Name three constellations found on the ecliptic.

<input type="text"/>	<input type="text"/>	<input type="text"/>
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5. Which constellation will the Sun occupy during the next _____ ? And for the _____ that follows this _____ , which constellation will the Sun occupy?

<input type="text"/>	<input type="text"/>
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6. Which constellation does the Sun occupy on the date of _____ ?

<input type="text"/>

7. Near what line should you find the Moon or the planets?

<input type="text"/>

8. Other than the Sun, which very bright stars are near the meridian at noon on _____ ?

<input type="text"/>	<input type="text"/>
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9. For an object located at the following coordinates: _____ , can you see this object in the evening or morning sky on _____ ?

<input type="text"/>

10. If _____ is in opposition on _____, what constellation does it occupy?

11. The following are the coordinates of Mars the latter part of 2005 and beginning of 2006. Plot Mars on your SC001. What type of motion is being exhibited by Mars?

Date	RA	Dec	Date	RA	Dec
September 1	03h 03m	+14° 25'	December 1	02h 24m	+15° 08'
September 15	03h 19m	+15° 40'	December 16	02h 22m	+15° 29'
October 1	03h 26m	+16° 29'	January 1	02h 33m	+16° 43'
October 16	03h 18m	+16° 37'	January 15	02h 50m	+18° 09'
November 1	02h 58m	+16° 08'	January 31	03h 16m	+20° 00'
November 16	02h 38m	+15° 29'			

12. Estimate the date of Mars's opposition from the plot you made in the previous problem.

13. In what year was the star Thuban considered the North Polar Star?

