Name:	

Motions of the Sun - Pretest

Answer the following questions.

Question 1: The sun rises lowest (its maximum altitude during the day is smallest) in our sky (assume a mid United States latitude) on ...

- a) March 21
- b) June 21
- c) September 21
- d) December 21

Question 2: At which of the following latitudes can an observer see the sun at their zenith on October 18?

- a) 20° N
- b) 10° N
- c) 0°
- d) 10° S
- e) 20° S

Question 3: On the vernal equinox the sun sets directly west. Where will the sun set two weeks later?

- a) north of west
- b) south of west

Question 4: On which of the following dates will an observer at 85° N see the sun above the horizon all day long?

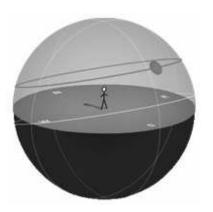
- a) June 21
- b) December 21
- c) The sun will rise and set everyday of the year at this latitude.

Question 5: From Tampa, FL (lat = 28°N), the meridinal altitude of the star Sirius (dec=16°) is: _____

Question 6: From Lincoln, NE, (lat=41°N), the meridinal altitude of the sun on the autumnal equinox is:

Question 7: The horizon diagram below shows the path of the sun on the _____ from a latitude of 75°N.

- a) summer solstice
- b) autumnal equinox
- c) winter solstice



Question 8: The horizon diagram below shows the path of the sun on the summer solstice from a latitude of

- a) 0°
- b) 30° N
- c) 60° N
- d) 90° N

