

DEPARTMENT OF ASTRONOMY
University of Florida

AST 1002

Phases and Right Ascension of the Moon: Questions and Answers

1. The 3rd quarter moon is just setting. The time is _____ (12 noon)

2. The waxing gibbous moon transits at about _____ (9 p.m.)

3. The full moon will transit in three hours. The time is _____ (9 p.m.)

4. It is 6 a.m. The moon is just rising. What is the phase of the moon? (new)

5. The time is 6 p.m. The moon will set in three hours. What is the phase of the moon? (waxing crescent)

6. It is 9 p.m., August 21. The moon will rise in 3 hours.

- a. What is the phase of the moon? (3rd quarter)
- b. What is the R. A. of the moon? (4^h)

7. I observe a lunar eclipse on September 21.

- a. What is the phase of the moon? (full)
- b. What is the R. A. of the moon? (6^h)
- c. What is the Decl. of the moon? (0^h)

If the eclipse occurs at sunset what are the

- d. Hour angle of the moon? (18^h)
- e. Azimuth of the moon? (90°)
- f. Zenith angle of the moon? (90°)
- g. What is the sidereal time? (18^h)