

AST 101: Astrolabe • In-class Notes

To answer all but the last two questions, set the astrolabe so that Spica is setting (center of Spica on horizon).

1. What is Spica's azimuth?

2. What bright star is rising?

What is its azimuth?

3. What is Arcturus' altitude?

Azimuth?

4. What star has just crossed the meridian?

What is its altitude?

What is its azimuth?

5. When Spica is setting, locate the Sun for today.

What is the Sun's azimuth?

What is its altitude?

6. When Spica is setting, the Sun is rising at what azimuth?

What is the date?

7. When Spica is setting, for what date is the beginning of civil twilight occurring?

8. If the date is March 20, what is Sun's altitude?

What is Sun's azimuth?

What (local solar) time is it?

OVER

9. If date is November 20, Sun's altitude:

Sun's azimuth:

What solar time is it?

10. What time does Spica set today?

11. What time does the Sun set on December 20? (**Spica not setting—New Setting)

12. On January 10th the altitude of Arcturus is measured to be 40°. (**New Setting)

What time is it?

13. What is the Right Ascension of Spica?

What is Spica's Declination?