



XVIII Международная астрономическая олимпиада



XVIII International Astronomy Olympiad

Литва, Вильнюс

6 – 14. IX. 2013

Vilnius, Lithuania

**Observational round. Questions.**  
**Clear sky**

Code of participant код участника

**Observations by the naked eye**

9. Find the object corresponding to the following criteria:
- The object is the second brightest star in its constellation.
  - The object is visible approximately 28 degrees from  $\alpha$  UMi.
  - The equatorial coordinates of the object are: **RA 11<sup>h</sup>, dec +62°**.

Answer the questions:

- a) What is the Bayer designation (e.g.  $\beta$  Ori) of the identified object?
- b) Write the name of the constellation in Latin, which the object is visible in.

Answers:


Answer:

10. What is the angular distance between Vega ( $\alpha$  Lyr) and Albireo ( $\beta$  Cyg)?

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Answers:

11. a) Find the horizontal coordinates of Thuban ( $\alpha$  Dra).
- b) Find the zenith distance of Alcor (near  $\zeta$  Ursae Majoris).


**Observations with telescope**

12. There are 3 binary stars on the given sky chart:  $\beta$  Cyg,  $\delta$  Lyr, and  $\epsilon$  Lyr. For each of the binaries do the following: Point the telescope to the binary. Compare the star field seen in telescope's field of view with three star charts given on a separate sheet. Write down the designations of the binary stars in each blank box under appropriate star chart. Mark North direction on every star chart.

The maximum total time for all tasks is **20 minutes**.



Round **Obs**

Group **α** **β**

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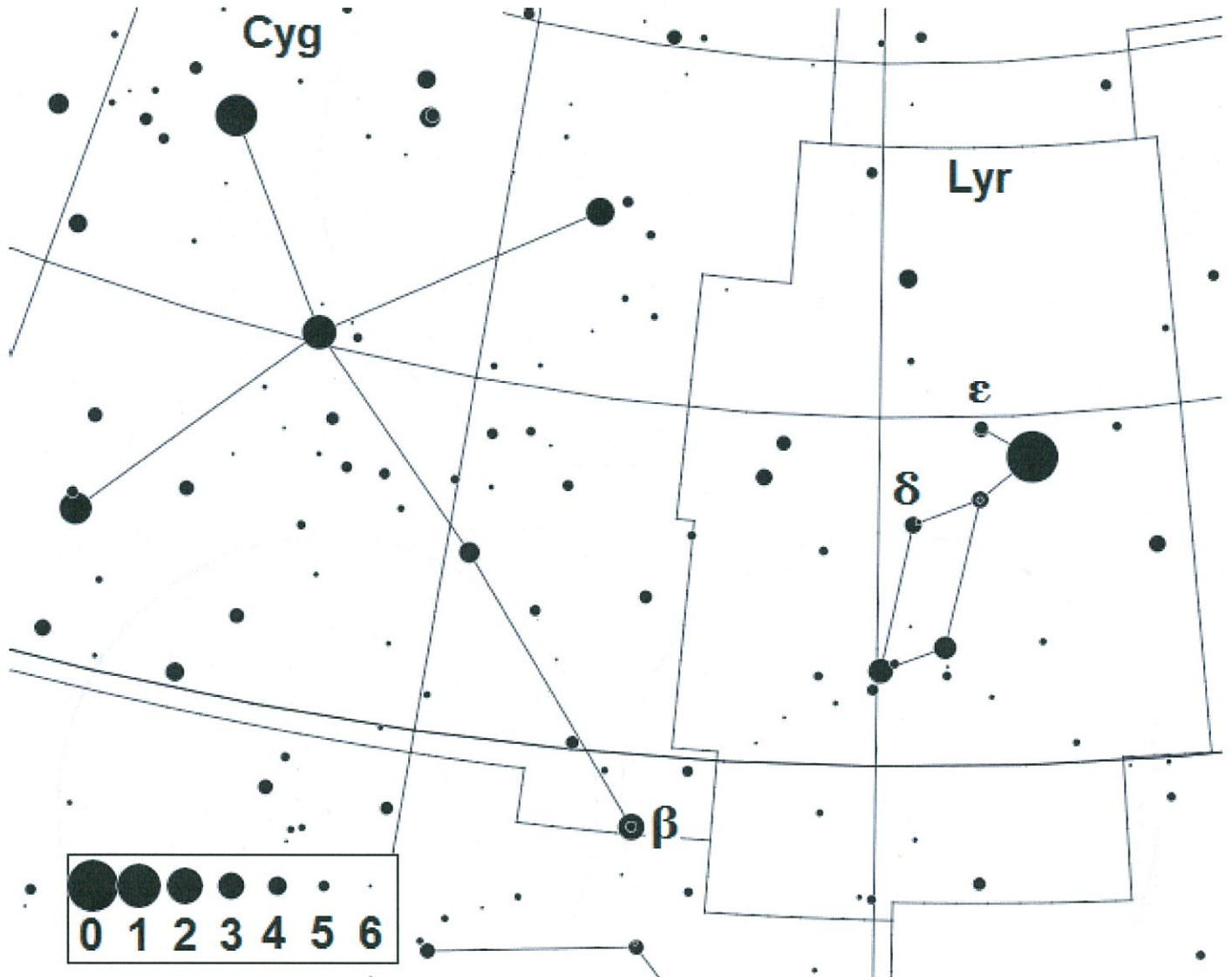
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Наблюдательный тур. Чистое небо  
Observational round. Clean sky

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Вопросы наблюдательного тура. Чистое небо  
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