Instructions

1. **This part of the competition consists of 2 problems (O5 and O6), and is worth a total of 50 points.**
2. **You have 10 minutes to complete these problems.**
3. **Stop working once the timer expires.**
4. **At the end of the examination, hand over the test envelope to the supervisor at the station.**
5. **You will use a telescope to observe five red LED screens at a distance. The telescope is equipped with one eyepiece, but no finderscope. Some of these screens display the names of planets, some show Messier numbers, and some show equatorial coordinates.**

O5. (10 points) The eyepiece's field of view is 45°. Please estimate the field of view (with an accuracy of 0.1°) of the telescope when observing.

Answer:

O6. (40 points) Write down the text you observed on the screen.

Answers: