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# 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.**

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

*Answer:*

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

*Answers:*