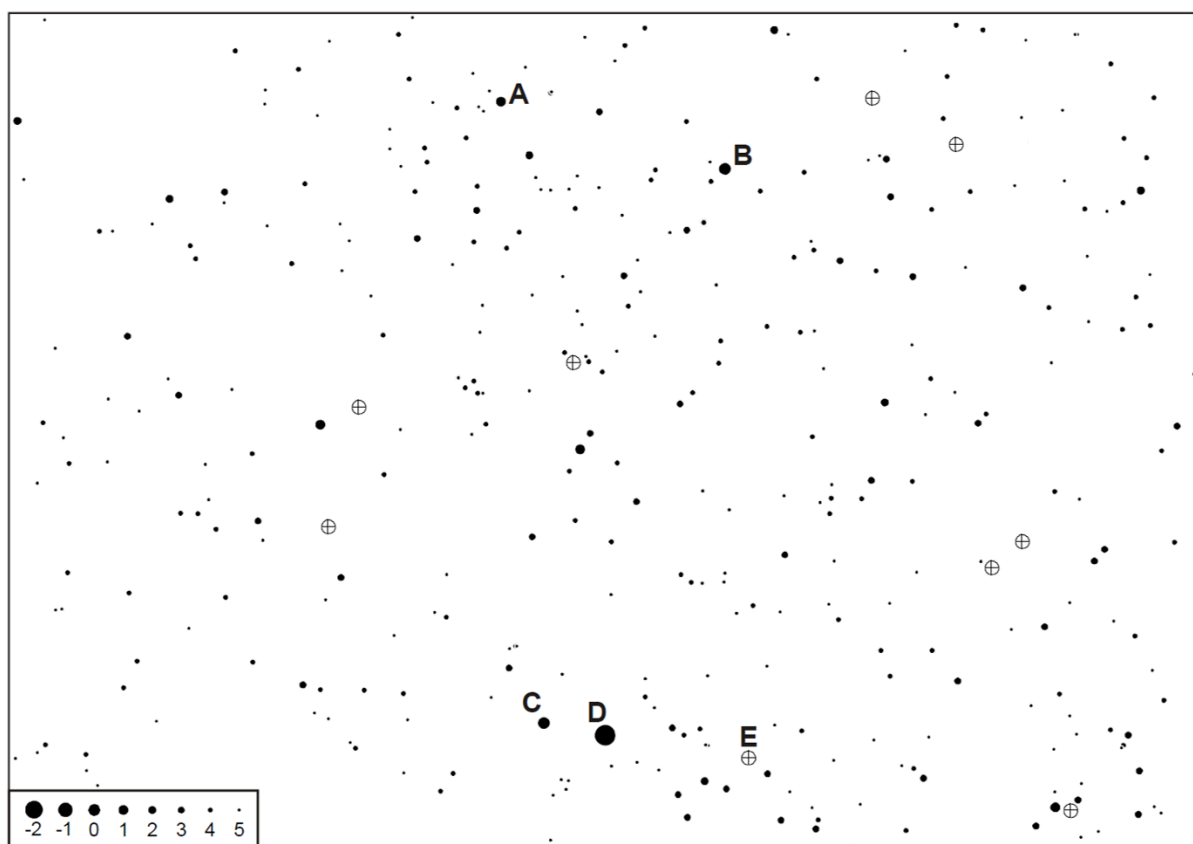


Israel Open Astronomy Olympiad 2025

Junior and Senior age group problems

Stellar map (20 p)

Below you see a map of a part of the sky (field of view is about 90 degrees) visible during a night in July. The small black disks show positions of the stars and planets. The disk radius is larger for brighter objects. The legend in the lower left of the map shows the correspondence between the apparent magnitude of an object and the diameter of the disk. The crossed empty circles show positions of globular star clusters.



A Identify the objects denoted by letters A to E. If you have several options for the object identification, enter all of them in the corresponding text field. The unreasonable answers will be penalized.

Answer:

- Object A is [] (2 p.)
- Object B is [] (2 p.)
- Object C is [] (2 p.)
- Object D is [] (2 p.)
- Object E is [] (2 p.)

B Arrange the objects in the order of increasing distance from the Earth at the map observation time. For example, enter “ABCDE” in the answer field if you think that A was the closest to the Earth, followed by B, etc., and E was the farthest from the Earth during the observation time.

Answer: [] (10 p., with 1 p for each correct relative distance)