

## Lab Preparation - Telescopes

***Before the first lab session:***

**Read entirely the lab manual Telescopes.**

**Answer the following questions to check your understanding of the basic ideas.**

1) Show that the real image produced by an objective lens will appear upside down.

2) Explain or show why a larger diameter lens creates a brighter image.

3) In the figure below, show that a concave objective mirror produces real images of headlights A and B that look exactly like the real images produced by the objective lens in Figure 2 in your manual. (Note: You have to draw at least two rays from **each** headlight in order to create a real image.)

