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.)