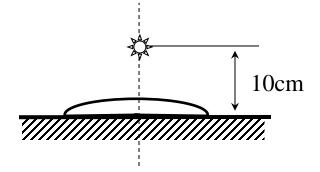
## Homework 7

 A plano-convex thin lens with the focal distance of 40cm is placed on a mirror (see fig.). At the optical axis of the lens, 10 cm above the lens is a point source of light. Where is the image of the point source?



- 2. You have a flat glass plate with the air bubble in the shape of a convex lens. Can you use this plate as a lens? What kind of lens is it?
- A convex lens produces a real image which is 2 times larger than the object. Find the focal distance of the lens if the distance between the lens and the image is 24cm. Make the picture.
- An object is placed 25cm before the front focal point of a concave lens. The image is produced 36cm behind the rear focal point. Find the focal distance of the lens. Make the picture.