

## Rec 13 Worksheet – Refraction of Light and Thin Lenses

**Example 1:** Suppose you want to use a single lens to project a slide (a transparent film) onto a screen. Do you need a converging or diverging lens? Explain.

- a) You need a virtual image, so you must use a converging lens. The image will be inverted, but that isn't a problem, because you can just hold the slide upside down.
- b) You need a real image, so you must use a converging lens. The image will be inverted, but that isn't a problem, because you can just hold the slide upside down.
- c) You need a virtual image, so you must use a diverging lens. The image will be inverted, but that isn't a problem, because you can just hold the slide upside down.
- d) You need a real image, so you must use a diverging lens. The image will be inverted, but that isn't a problem, because you can just hold the slide upside down.

**Example 2:** A man standing 1.56 m in front of a shaving mirror produces an inverted image 20.0 cm in front of it. How close to the mirror should he stand if he wants to form an upright image of his chin that is twice the chin's actual size?

8.66 cm

**Example 3:** A cubical block of ice 52.5 cm on a side is placed on a level floor over a speck of dust. Find the location of the image of the speck as viewed from above. The index of refraction of ice is 1.309.

40.1 cm

The image distance is measured from (choose one)

- (i) Below the top surface of the ice ;
- (ii) above the bottom surface of the ice

**Example 3:** A contact lens is made of plastic with an index of refraction of 1.60. The lens has an outer radius of curvature of +2.04 cm and an inner radius of curvature of +2.48 cm. What is the focal length of the lens?

19.2 cm

# Refraction And Lenses Section 3reinforcement Answers

**DP Hallahan**



### **Refraction And Lenses Section 3reinforcement Answers:**

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