

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

**Smithsonian Institution, National
Academy of Engineering, National
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Refraction And Lenses Section 3reinforcement Answers:

Ophthalmology E-Book Myron Yanoff, Jay S. Duker, 2018-08-09 Long considered one of ophthalmology's premier texts, this award-winning title by Drs. Myron Yanoff and Jay S. Duker remains your go-to reference for virtually any topic in this fast-changing field. It offers detailed, superbly illustrated guidance on nearly every ophthalmic condition and procedure you may encounter, making it a must-have resource no matter what your level of experience. Extensive updates throughout keep you current with all that's new in every subspecialty area of the field. Offers truly comprehensive coverage including basic foundations through diagnosis and treatment advances across all subspecialties: genetics, optics, refractive surgery, lens and cataract, cornea, retina, uveitis, tumors, glaucoma, neuro-ophthalmology, pediatric and adult strabismus, and oculoplastics. Features streamlined, templated chapters, a user-friendly visual layout, and key features boxes for quick access to clinically relevant information and rapid understanding of any topic. Contains nine brand-new chapters covering OCT angiography and optical coherence tomography, small incision lenticule extraction (SMILE), corneal imaging, electrophysiology in neuro-ophthalmology, glaucoma drainage implants, thyroid eye disease, orbital infections, and aesthetic fillers and botulinum toxin for wrinkle reduction. Covers new imaging techniques including wide-field imaging, anterior segment OCT, AS-OCT, and high-definition OCT, as well as two completely reorganized sections on optics and refraction and intraocular tumors that provide a more logical and user-friendly approach for enhanced understanding. Includes more than 2,000 high-quality illustrations, most in full color, and an expanded video library with 50 clips of diagnostic and surgical techniques. New videos cover refractive surgery advances, phakic intraocular lenses, combined cataract procedures, nystagmus eye movement examinations, and more. Expert Consult™ eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

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