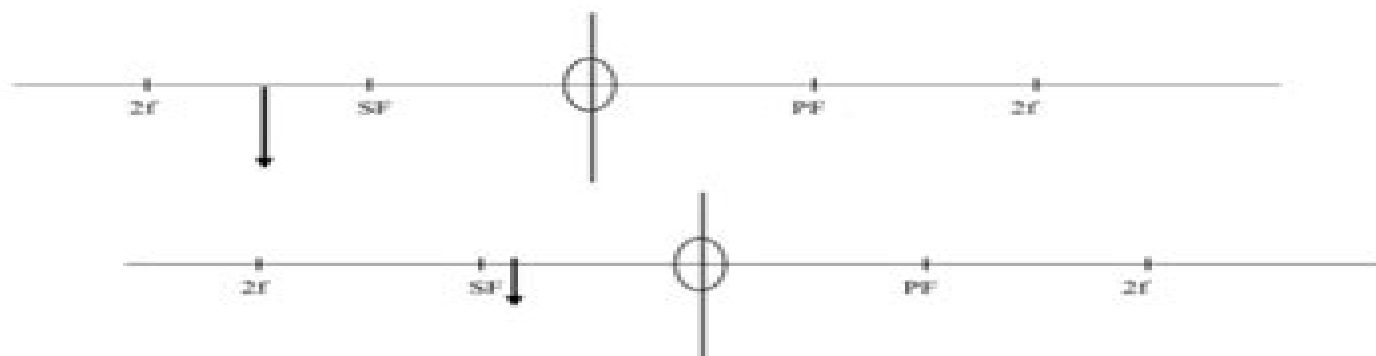


18. -3.4 cm; 19. 2.4 cm; 20. 20 cm; 21. 0.005 cm; 22. 6 cm;  
23. 1.42 cm; 24. 2.45 m; 25. a) 3.3 cm; b) 3.003 cm; c) 0.36 cm

### Lenses Practice Problems

18. A tree 15 m high is located 35 m from the secondary focus of a convex lens of focal length 8.0 cm. Calculate the height of the image of the tree.
19. A normal human eye has a focal length of about 2.3 cm. If you look at the tip of a pencil 55.3 cm from your eye, how far is the image from the principle focus of the eye?
20. A converging lens in a photocopying machine makes images the same size as the original. If the items to be copied are placed at a fixed distance of 40 cm from the lens, what is the focal length of the lens?
21. The image of a newspaper is focused by a convex lens with a focal length of 50 cm onto a film that is 1.0 cm from the primary focus of the lens. The distance between adjacent grains on the film is about  $10^{-4}$  cm. What is the distance between these 2 dots on the newspaper?
22. If the focal length of the lens in your camera is 2 cm, at what distance will objects be most in-focus if the film is set at 3 cm from the lens?
23. What is the focal length of the lens in your eye if you wish to look at an object 105 cm away from your eye, and the distance from your lens to the retina (the location of the focussed image) is 1.44 cm?
24. What is the maximum size of an object that is 100 cm from your eye, if you want to see all of it? The focal length of the lens in your eye is 2 cm and the maximum size of an image that can be perceived on your retina is 5 cm.
25. A camera lens has a focal length of 3 cm
  - a) When photographing a very close up object (30 cm from the lens) how far from the film should the lens be set so that the image is clear?
  - b) How far should the lens be set when photographing an object that is 30.03 m from the lens?
  - c) How tall will the picture be of a man 1.8 m tall standing 15.03 m from the lens?
26. A lens can be formed by a bubble of air in water. Is such a lens converging or diverging? Use a diagram in your answer.
27. When you open your eyes underwater, are you nearsighted or farsighted?
28. Which of the lenses to the right would have a shorter focal length? Why?
29. How are we able to see objects from afar? Explain and use a sketch.
30. A converging lens of crown glass and a lens of diamond have the same shape. Which lens will have the greater focal length? Explain.
31. Locate the image and state the magnification, attitude and type of the image:



# Lens Practice Problems

**Marcel A. Müller**



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## **Table of Contents Lens Practice Problems**

1. Understanding the eBook Lens Practice Problems
  - The Rise of Digital Reading Lens Practice Problems
  - Advantages of eBooks Over Traditional Books
2. Identifying Lens Practice Problems
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Lens Practice Problems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lens Practice Problems
  - Personalized Recommendations
  - Lens Practice Problems User Reviews and Ratings
  - Lens Practice Problems and Bestseller Lists
5. Accessing Lens Practice Problems Free and Paid eBooks
  - Lens Practice Problems Public Domain eBooks
  - Lens Practice Problems eBook Subscription Services

- Lens Practice Problems Budget-Friendly Options
- 6. Navigating Lens Practice Problems eBook Formats
  - ePub, PDF, MOBI, and More
  - Lens Practice Problems Compatibility with Devices
  - Lens Practice Problems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lens Practice Problems
  - Highlighting and Note-Taking Lens Practice Problems
  - Interactive Elements Lens Practice Problems
- 8. Staying Engaged with Lens Practice Problems
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lens Practice Problems
- 9. Balancing eBooks and Physical Books Lens Practice Problems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lens Practice Problems
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lens Practice Problems
  - Setting Reading Goals Lens Practice Problems
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lens Practice Problems
  - Fact-Checking eBook Content of Lens Practice Problems
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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