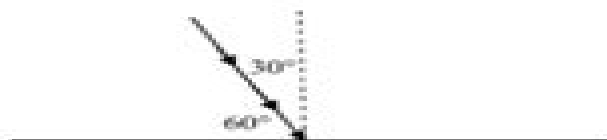


Optics Basics  
Student Worksheet

Answer the following questions during or after your studies of optics.

1. Compare the brightness of a 100 W light bulb 1.0 m away from your desk and a 100 W light bulb 3.0 m away from your desk.
2. What is the angle of incidence in the following diagram? Draw the reflected ray, and label the angle of reflection.



3. What does it mean if a surface is "smooth?" How does it depend on the wavelength of the light being reflected?
4. Compare the smoothness of a radio telescope to that of a UV telescope.
5. What is the focal length of a curved mirror? What does it depend on?
6. What is the ratio of the light gathering power of the Mount Wilson Observatory 100-inch diameter telescope to that of its 60-inch diameter telescope?
7. What is the ratio of the resolution of the two telescopes in the previous problem, assuming they are looking at the same wavelength signal? Which has better resolution?
8. Why do biologists sometimes illuminate their microscopes with blue light instead of simply white light?

# Physics Optics Basics Answer Key Murray

**Thomas Griffiths**



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## Physics Optics Basics Answer Key Murray Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Physics Optics Basics Answer Key Murray**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect on readers.

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