



Name:  Date:

## Student Exploration: Ray Tracing (Mirrors)

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** concave mirror, convex mirror, focal point, magnification, real image, reflect, virtual image

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

For these questions, it would be helpful to have a metal spoon on hand. If you don't have one, try to imagine looking at yourself in a spoon.

1. Look at yourself in the front of the spoon (the side where the food sits). What do you see?

The front of a spoon is an example of a **concave mirror**.

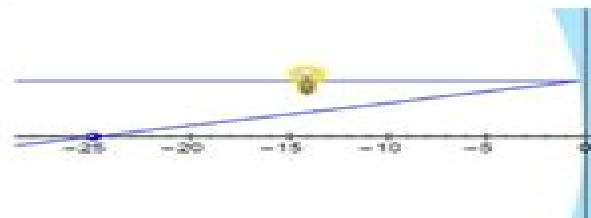
2. What do you see when you look at yourself in the back of a spoon?

The back of a spoon is an example of a **convex mirror**.

### **Gizmo Warm-up**

The *Ray Tracing (Mirrors)* Gizmo shows a side view of a light bulb positioned to the left of a mirror. Light rays passing from the light bulb to the mirror are shown.

To begin, select the **Concave mirror**. Turn on **Colorize lines**. Under **Show lines**, turn off the **Central line** and the **Line through focal point** so that only the **Parallel line** is showing.



1. The blue dot in front of the mirror is the **focal point** of the mirror. Move the light bulb on the left around. What is always true about the ray that is **reflected** from the parallel ray?

2. Turn off the **Parallel line** and turn on the **Line through focal point**. Move the light bulb around. What do you notice about the reflected ray in this situation?

# Ray Tracing Gizmo Worksheet Answers

**Christopher D. Watkins, Stephen B.  
Coy, Mark Finlay**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the authors' names.

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**An Introduction to Ray Tracing**, 1989      *Ray Tracing Gems* Eric Haines, Tomas Akenine-Möller, 2019-02-25 This book is a must have for anyone serious about rendering in real time With the announcement of new ray tracing APIs and hardware to support them developers can easily create real time applications with ray tracing as a core component As ray tracing on the GPU becomes faster it will play a more central role in real time rendering Ray Tracing Gems provides key building blocks for developers of games architectural applications visualizations and more Experts in rendering share their knowledge by explaining everything from nitty gritty techniques that will improve any ray tracer to mastery of the new capabilities of current and future hardware What you ll learn The latest ray tracing techniques for developing real time applications in multiple domains Guidance advice and best practices for rendering applications with Microsoft DirectX Raytracing DXR How to implement high performance graphics for interactive visualizations games simulations and more Who this book is for Developers who are looking to leverage the latest APIs and GPU technology for real time rendering and ray tracing Students looking to learn about best practices in these areas Enthusiasts who want to understand and experiment with their new GPUs

**Adventures in Ray Tracing** Hermida, 1995-08-01      *Graphical Ray Tracing* Chan Street, 1973      *Ray Tracing Creations Book* Wells,      *Ray Tracing Gems* Eric Haines, Tomas Möller, 2019 This book is a must have for anyone serious about rendering in real time With the announcement of new ray tracing APIs and hardware to support them developers can easily create real time applications with ray tracing as a core component As ray tracing on the GPU becomes faster it will play a more central role in real time rendering Ray Tracing Gems provides key building blocks for developers of games architectural applications visualizations and more Experts in rendering share their knowledge by explaining everything from nitty gritty techniques that will improve any ray tracer to mastery of the new capabilities of current and future hardware What you ll learn The latest ray tracing techniques for developing real time applications in multiple domains Guidance advice and best practices for rendering applications with Microsoft DirectX Raytracing DXR How to implement high performance graphics for interactive visualizations games simulations and more Who is this book for Developers who are looking to leverage the latest APIs and GPU technology for real time rendering and ray tracing Students looking to learn about best practices in these areas Enthusiasts who want to understand and experiment with their new GPUs      [Practical Ray Tracing](#) in C. Craig A. Lindley, 1992      **Ray Tracing Creations Book** Young, 1994-11-01      **Graphical Ray Tracing** Graphical Ray Tracing Staff,      **Ray Tracing and Beyond** E. R. Tracy, 2014      **Fotorealismus und ray tracing in C** Christopher D. Watkins, Stephen B. Coy, Mark Finlay, 1993      [Adventures in Ray Tracing](#) Alfonso Hermida, 1993 Ray tracing is a technique with which photo realistic images can be created This book disk package illustrates the ray tracing process and includes the best ray tracing software available The software allows the reader to create images that resemble those used in many computer generated movies commercials etc Animation techniques and software are also included      *An Introduction to Ray*

*Tracing*, 1989      Ray Tracing for Light and Radio Wave Simulations Arne Schmitz, 2012-12-31      *Ray Tracing Creations* Chris Young, Drew Wells, 1994 This book disk package teaches anyone with an IBM PC or compatible how to create 3 D photorealistic images using the powerful updated ray tracing program POV Ray 2 0 included This new edition contains detailed explanations of all the improvements and additions to version 2 0 of POV Ray plus an extended reference section

*Refined Ray Tracing inside Single- and Double-Curved Concave Surfaces* Balamati Choudhury, Rakesh Mohan Jha, 2015-09-24 This book describes the ray tracing effects inside different quadric surfaces Analytical surface modeling is a priori requirement for electromagnetic EM analysis over aerospace platforms Although numerically specified surfaces and even non uniform rational basis spline NURBS can be used for modeling such surfaces for most practical EM applications it is sufficient to model them as quadric surface patches and the hybrids thereof It is therefore apparent that a vast majority of aerospace bodies can be conveniently modeled as combinations of simpler quadric surfaces i e hybrid of quadric cylinders and quadric surfaces of revolutions Hence the analysis of geometric ray tracing inside is prerequisite to analyzing the RF build up This book describes the ray tracing effects inside different quadric surfaces such as right circular cylinder general paraboloid of revolution GPOR GPOR frustum of different shaping parameters and the corresponding visualization of the ray path details Finally ray tracing inside a typical space module which is a hybrid of a finite segment of right circular cylinder and a frustum of GPOR is analyzed for practical aerospace applications      **Visualization of Volumetric Data by Ray Tracing** Miloš Šrámek, 1996      *Ray Tracing* Jon Peddie, 2019 This is the first book to offer a comprehensive overview for anyone wanting to understand the benefits and opportunities of ray tracing as well as some of the challenges without having to learn how to program or be an optics scientist It demystifies ray tracing and brings forward the need and benefit of using ray tracing throughout the development of a film product or building from pitch to prototype to marketing Ray Tracing and Rendering clarifies the difference between conventional faked rendering and physically correct photo realistic ray traced rendering and explains how programmers time and backend compositing time are saved while producing more accurate representations with 3D models that move Often considered an esoteric subject the author takes ray tracing out of the confines of the programmers lair and shows how all levels of users from concept to construction and sales can benefit without being forced to be a practitioner It treats both theoretical and practical aspects of the subject as well as giving insights into all the major ray tracing programs and how many of them came about It will enrich the readers understanding of what a difference an accurate high fidelity image can make to the viewer our eyes are incredibly sensitive to flaws and distortions and we quickly disregard things that look phony or unreal Such dismissal by a potential user or customer can spell disaster for a supplier producer or developer If it looks real it will sell even if it is a fantasy animation Ray tracing is now within reach of every producer and marketer and at prices one can afford and with production times that meet the demands of todays fast world      **Practical Ray Tracing in C** Craig A. Lindley, 1992-11-09 An accessible introduction to this

technique and how it works complete with sophisticated code examples that can be used in applications Includes leading edge methods for high speed ray tracing as well as detailed coverage of design procedures generation processing storage and photographic output of ray traced images The accompanying disk contains all code examples gallery images plus two complete ray tracing programs one of which is a high speed ray tracer      **Realistic Ray Tracing, Second Edition** Peter Shirley,R. Keith Morley,2008-12-19 Concentrating on the nuts and bolts of writing ray tracing programs this new and revised edition emphasizes practical and implementation issues and takes the reader through all the details needed to write a modern rendering system Most importantly the book adds many C code segments and adds new details to provide the reader with a better intuitive understanding of ray tracing algorithms

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