



Name: _____

Date: _____

Student Exploration: Ray Tracing (Mirrors)

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?

My reflection, but upside down

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

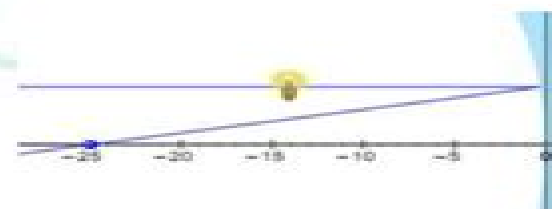
2. What do you see when you look at yourself in the back of a spoon?

My reflection, but a bit distorted.

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?

The ray reflected from the parallel ray goes through the focal point after reflecting from the mirror

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?

The ray reflected is parallel to the principal axis.

Activity A: Real and virtual	Get the Gizmo ready: • Check that the Concave mirror is selected. • Turn on the Parallel line, Central line, and Line	
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Answers To Ray Tracing Gizmo

Ray Rogers



Answers To Ray Tracing Gizmo:

Puzzle Master T.J. McKenna, 2023-02-13 Cephas Paulson was born to solve puzzle that nobody else can solve a talent the U S government has exploited with deadly results Living in 2202 A D his is a world dominated by apathy and hedonism where religion is banned and the few remaining Christians hide in the shadows Known worldwide as The Cult Hunter Cephas is largely responsible for putting them there Now living a quiet life as a religious history professor Cephas is reluctantly called out of retirement when the government sends him on a high stakes mission designed to crush Christianity once and for all As the puzzles begin to unravel Cephas struggles to find the one answer that has always eluded him the solution to his own desire to explore faith rather than destroy it To do so he finds himself walking a dangerous line between two worlds and two beautiful women One represents the temptations of the outwardly utopian world of man while the other the Godly world that he s secretly trying to understand Unfortunately neither these worlds nor these women are truly what they appear to be leaving Cephas to wonder if the Cult Hunter has become the hunted

Up and Running with Autodesk Navisworks 2014
Deepak Maini, 2013-04-15 This textbook is specially written keeping in mind the requirements of plant and building industry Real world plant and building models have been carefully selected to discuss the tools and concepts in the tutorials of every chapter You will be able to find various similarities between the models used in this textbook and your current projects This will allow you to apply the concepts learned in this textbook to your day to day work These real world models are also made available to the buyers of this textbook The following are some salient features of this textbook Free Tutorial on clash test with Point Cloud available by contacting the author at deepak deepakmaini com More than 640 pages of in depth coverage of all modules of Autodesk Navisworks Simulate and Manage including the new Quantification module Detailed discussion of Autodesk Navisworks tools and concepts followed by Plant and BIM tutorials Around 400 pages of tutorials on real world Plant and Building models Special tutorial on the animation of the subsea Remotely Operated Vehicle ROV Special tutorials showing the Animator and Scripter scenes with Crane movement and animation Project based chapter for the Autodesk Factory Design Suite user Timeliner simulation linked with animator animations showing construction sequences and movement of objects at the construction site Detailed coverage of the Clash Detective module and the switchback functionality Timeliner based clash tests included in tutorials What I do tips describing some real world challenges that Navisworks users face and the author s approach in those situations Free video showing how to use Autodesk ReCap to reduce the size of Point Cloud data before importing in Autodesk Navisworks available by contacting the author at deepak deepakmaini com End of chapter skill evaluation to review the concepts learnt in the chapter The following free teaching resources are available for faculty PowerPoint slides of every chapter in the textbook Answers to the Class Test Questions Help for designing the course curriculum

Cosmic Misfits Ray Rogers, 2012-10-10 Ryan Bettencourt has an enviable life Happily married with two great kids and a successful and profitable career he loves the world is at his feet But one evening

while driving home something extraordinary changes everything His ordinary life takes a twist into the bizarre when his drive home is interrupted by a ship visiting from another planet He is now an unwilling guest on the spaceship Solar Flare an extraordinary blend of machine and sentient being The Solar Flare has been sent to Earth to retrieve a human being and Ryan is the lucky winner of this new adventure The ship using telepathy and Ryans help awakens the ships crew four humanoids and Tobias a being unlike any Ryan had ever seen or even imagined With elfin features light green skin dark green wings and a tail similar to a monkeys Tobias is truly alien Ryan soon learns that the visitors are running from enemies and are now lost and in need of humanitys help The extraterrestrials explore Earth and determine that it will be a suitable place to lay low for a while Once safely hidden from their enemies they begin repairs to their battle scarred ship Maybe they can ever figure out where they are and how to get home But when Tobias accidentally kills two humans no one seems to care that it was in self defense Can his shipmates and new human friend rescue him before hes executed

Department of Homeland Security Appropriations for 2009, Part 3, 110-2 Hearings ,2008 **Department of Homeland Security Appropriations for 2009** United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security,2008 **Popular Photography** ,1982-03 *Forum* ,1994 *3ds Max and Its Applications, Release 5.x* Eric K. Augspurger,Blake J. Fisher,2004 3ds max and its applications provides straightforward easy to read instruction for mastering the software 3ds max R5 and is designed specifically for the education market The text has over 750 full color illustrations of which more than 300 are full color renderings In chapter exercises reinforce commands and procedures as they are presented End of chapter modeling problems allow students to apply knowledge gained in the chapter Each chapter concludes with a chapter test to measure student progress and performance The text progresses through five sections from basic setup and creating and animating basic objects through advanced topics such as inverse kinematics systems and NURBS modeling This allows flexibility to use the text in basic intermediate and or advanced level classes *New Scientist* ,2006 **DATAMATION** ,1997

The Top Books of the Year Answers To Ray Tracing Gizmo The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. Answers To Ray Tracing Gizmo : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Answers To Ray Tracing Gizmo : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://legacy.tortoisemedia.com/book/browse/Documents/pro%20myth%20retelling.pdf>

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