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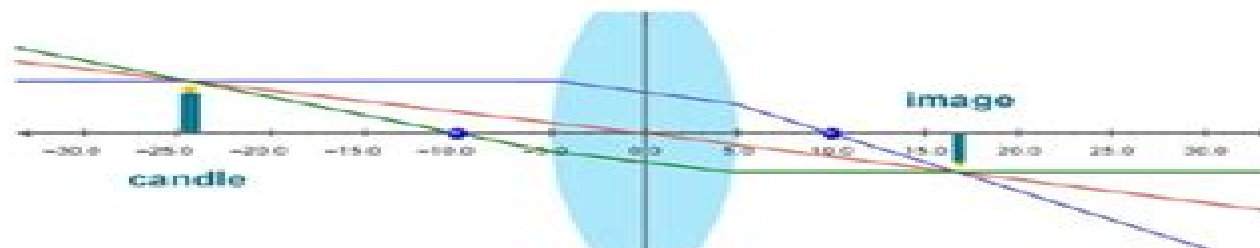
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## Questions &amp; Answers

1. What are two ways you could increase the magnification (increase the size of the image) in the situation shown below?



- A. Move the candle to the right, or the focal point to the left.
- B. Move the candle to the right, or the focal point to the right.
- C. Move the candle to the left, or the focal point to the left.
- D. Move the candle to the left, or the focal point to the right.

**Correct Answer:** A. Move the candle to the right, or the focal point to the left.

Explanation: For a convex lens, the closer an object is to the focal point, the larger its image is (and therefore the greater the magnification is). The two ways you could make the candle be closer to the focal point are to move the candle to the right, or the focal point to the left.

You answered this question correctly!

2. A large convex lens stands on the floor. The lens is 180 cm tall, so the principal axis is 90 cm above the floor. A student holds a flashlight 120 cm off the ground, shining straight ahead (parallel to the floor) and passing through the lens. The light is bent and intersects the principal axis 60 cm behind the lens. Then the student moves the flashlight 30 cm higher (now 150 cm off the ground), also shining straight ahead through the lens. How far away from the lens will the light intersect the principal axis now?

# Explore Learning Ray Tracing Lenses Answer Key

**Chan Street**



## Explore Learning Ray Tracing Lenses Answer Key:

**The Software Encyclopedia 2001** ,2001      *Bulletin of the Atomic Scientists* ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      **A ray tracing package through a lens system and spectrometer** B. Zurro,P. W. King,E. A. Lazarus,1980      *Graphical Ray Tracing* Chan Street,1973      *Generalized Ray Tracing Method for the Calculation of the Peripheral Refraction Induced by an Ophthalmic Lens* Pilar Rojo Badenas,2015 This thesis proposes a method to evaluate and quantify in a precise way the peripheral refraction induced by an ophthalmic lens The motivation for this work stems from the progression of myopia and its possible causes two of them are particularly key for this PhD a Peripheral refraction of the eye may have an important role in the progression of myopia and b ophthalmic lenses are the compensating element more used in children and teenagers These two elements fully justify the need for a reliable method to quantify the induced peripheral refraction by an ophthalmic lens This method is based on two pillars first it must accurately assess the design of the ophthalmic lens and second it should consider what peripheral refractive pattern is acting that is without compensating element The proposed method takes the advantages provided by the ray tracing strategies used in the classic design of ophthalmic lenses but applying them in parallel with amendments to evaluate the peripheral refraction Thus the simple scheme used in the classic design of ophthalmic lenses containing a remote sphere and a small aperture at the center of rotation of the eye becomes a scheme where the retina conjugate surface RCS and the nodal point of the eye play equivalent roles In our case the reference for ray tracing is the nodal point of the eye and the reference for measuring the induced peripheral refraction is the RCS Ray tracing is based on a finite ray tracing FRT from the image space to the object space and on a generalized ray tracing GRT from object space to image space Both have been implemented in a Matlab program and validated to provide a powerful tool for our purpose GRT allows a quick and accurate assessment of the oblique astigmatism ie the tangential and sagittal focal lens in wide field of view considering accurately the lens design This considers that each ray has a small wavefront associated traveling perpendicular to it By GRT we are able to know how the wavefront shape changes when is propagated and refracted Therefore it is mandatory to have a locally description of the geometry of both the wavefront and the refractive surface at the point where the ray arrives to the refractive surface This local description is determined by the normal and by the principal curvatures and directions of these surfaces at the point of interest they can be obtained from a parametric description of the surface and then using Gaussian fundamental forms This ray tracing procedure has been developed for the general case of any geometry to the surfaces of the ophthalmic lens and has been detailed for the case of an astigmatic lens For calculating the induced peripheral refraction a surface is modeled reflecting the peripheral refractive initial values before entering the lens this is the aforementioned RCS Two methods have been proposed to model this RCS One is based on

the trends observed in the different studies and uses three dimensional surfaces power vectors associated with peripheral refraction The second method uses experimental measurements obtained along four meridians of the retina to interpolate a surface The expression of these surfaces by power vectors can easily be combined with the results obtained by tracing rays through the lens for the calculation of the induced peripheral refraction We present in this manuscript some specific examples of how variations on the lens geometry modified the induced peripheral refraction This opens up the possibility of custom designs ophthalmic lenses to prevent the progression of myopia

**Characterization of Aspherical Lenses by Experimental Ray Tracing** Ufuk Ceyhan,2013 **Properties and Applications of Generalized Ray Tracing** Steven Craig Parker,1971 *Adventures in Ray Tracing* Hermida,1995-08-01 *Ray Tracing Creations Book* Wells, *Ray Tracing Creations Book* Young,1994-11-01 **Ray Tracing Confirms the Optical Properties of the Bovine Lens are Actively Maintained by the Microcirculation System** Chen Qiu,2019

Ocular pathologies such as cataract have become increasingly common as the human population continues to age due to better healthcare As such the need for an improved understanding of the underlying causes is necessary Using a variety of Magnetic Resonance Imaging MRI modalities and optical modelling software the Molecular Vision Laboratory MVL has shown that the lens geometry and the gradient of refractive index GRIN which together determine the optical properties of the ocular lens are actively maintained by the lens microcirculation system Based on a series of experiments the MVL have proposed that monitoring the optical properties of lens could serve as a good indicator at the whole tissue level of the underlying state of the cellular physiology of the lens To investigate this hypothesis I have developed a novel laser ray tracing LRT system that allows the optical properties of isolated bovine lenses maintained in organ culture to be measured A fully automated LRT system capable of passing multiple rays at different projection angles through bovine lenses maintained in organ culture was developed The lens geometry was quantitatively analysed by detecting the edge of the lens using state of the art segmentation methods Retrieval of the lens GRIN involved solving an optimization problem that is constructed from information in the ray deflections This optimization process was aided by a set of physiologically and optically relevant constraints These constraints included a decreasing refractive index from the lens core radially outward towards the lens surface and a homogenous index at the surface of the lens that was consistent with the lens growth rings that are formed during lens development In some instances information of the absolute refractive index of the lens was also required The overall lens optics determined by the product of the lens geometry and GRIN was then validated by comparing the ray trajectories computed using ray theory simulations to direct experimental trajectories extracted from the original ray tracing images I then used this system to monitor the time course of changes to lens geometry GRIN and power in bovine lenses organ cultured in the absence and presence of reagents known to alter the cellular physiology of the lens Lenses cultured in Artificial Aqueous Humor AAH for up to four hours maintained relatively constant power geometry and GRIN over time In contrast lens incubated in a high concentration of K High K AAH

which inhibits the microcirculation system by depolarizing the lens potential exhibited a rounding in lens geometry but a decrease in GRIN which resulted in a small but significant increase in overall power. A similar effect on lens geometry, GRIN, and power was observed in lenses perfused with 100% CO<sub>2</sub> which by altering lens pH closes gap junctions in the outer cortex of the lens. In contrast, incubating lenses in ouabain (1 mM) to block the Na<sup>+</sup>/K<sup>+</sup> ATPase that drives the lens microcirculation caused a more pronounced rounding of lens shape, an increase in GRIN that was more prominent in the lens core relative to the outer cortex, and a substantial increase in optical power. Using LRT to directly measure lens optics, I have confirmed earlier MRI experiments that showed the microcirculation system actively controls the optical properties of the lens. Furthermore, I have shown that inhibiting different components of the lens potential, gap junctional conductance, and Na<sup>+</sup> pump current of the lens microcirculation system differentially affects the lens optical properties.

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web jan 12 2022 digital photography mimics film photography by using electronic sensors to differentiate between light and dark these sensors capture digital images that are stored on a memory card digital images can easily be manipulated or altered after a shoot using digital photo editing software like adobe photoshop or adobe lightroom

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web the digital motion picture archive framework project is a multi year collaborative effort to investigate and address key issues in long term preservation of and access to digital motion pictures

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web oct 16 2022 digital cinematography is the technique of photographing motion pictures as digital images as opposed to film cinematography which uses film stock to capture light digital cinematography utilizes a digital sensor within a camera that captures light these images are then stored onto a tape or digital files

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web live projection of moving images occurs in the camera obscura also known as pinhole image a natural phenomenon that may have been used artistically since prehistory very occasionally the camera obscura was used to project theatrical spectacles to

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web jul 9 2021 the results suggested a more frequent use of smartphones as cameras the emergence of full digital film sets and digital star avatars as well as advancements in vr based and interactive movies the findings imply challenges for traditional players in the motion picture value chain

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