

CURVED MIRRORS RAY DIAGRAMS

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What are the applications of curved mirrors in real life?

What do curved mirrors do to reflect images? Mirrors that reflect on the inside of the spherical surface are called concave mirrors; they will cause parallel light to converge on a point. Mirrors that reflect on the outside of the spherical surface are called convex mirrors; they will cause parallel light to diverge as if coming from a common point.

How does the focal length of a concave mirror change when an object is moved close to the mirror? Answer: the focal length of the mirror decreases when an object is moved closer to the mirror. This means that as the object moves closer to the mirror, the distance between the focal point and the mirror decreases.

What is the definition of a concave mirror? A concave mirror is a mirror in which the reflecting surface is curved inwards. The focal length of a concave mirror is positive and shows the distance required to converge light rays to a single point, known as the focal point.

What is the most common example of curved mirror? We are used to plane mirrors. But, when they are curved, they produce images that are different from those formed by plane mirrors. Common examples of curved mirrors stainless steel spoons, ladles, vessels with round bases, car mirrors, shaving and hub caps of car wheels.

What are the real images formed by curved mirrors? Note that a concave mirror always forms real and inverted and images except when the object is placed

between the focal point and the pole of the mirror when it forms a virtual and inverted image. On the other hand, a convex mirror always forms a virtual, erect and diminished image.

What are the three rules of reflection for a curved mirror?

What is the law of curved mirror? i The angle of reflection equals to the angle of incidence. ii The incident ray reflected ray and the normal to the reflecting surface at the point of incidence lie in the same plane.

Why do curved mirrors create distorted images? An object reflected in a convex mirror appears closer to the mirror and smaller than it really is. For a concave mirror the skewers point toward each other, and the reflected light rays spread out less. The reflection of an object close to the mirror is bigger and looks farther away.

How to learn ray diagrams easily?

What is the only location where a converging mirror will not produce an image? When the object is located at the focal point, no image is formed. As discussed earlier in Lesson 3, light rays from the same point on the object will reflect off the mirror and neither converge nor diverge.

What happens if a concave mirror is kept in water? Mirrors, spherical or otherwise, operate on the principle that the angle of reflection of a ray of light equals the angle at which it strikes the mirror's surface. That behavior is not affected by the medium in which the light travels, so the mirror's focal length would be no different in air or water.

Do concave mirrors make images bigger or smaller? Flexi Says: Concave mirrors can make images appear larger or smaller depending on the object's distance from the mirror. If the object is close to the mirror (within the focal length), the image appears larger and upright. If the object is beyond the focal length, the image appears smaller and inverted.

What is the image behind the mirror in a concave mirror? Magnification and Image Formation: When a concave mirror is placed very close to the object, it forms a magnified, erect, and virtual image. The image appears larger than the actual object and is upright. The virtual image is formed as the reflected rays appear to

diverge from a point behind the mirror.

Do concave mirrors produce real images? A concave mirror can produce both real and virtual images. A real image formed by a concave mirror is always inverted.

What are the 2 types of curved mirror called? There are two types of curved mirror (convex and concave). A mirror that bulges outwards is called a convex mirror. Convex mirrors show things the right way up and usually smaller. A mirror that bulges inwards is called a concave mirror.

What is the physics of curved mirror? The Physics of Light -- Curved Mirrors. Curved mirrors combine the behavior of a flat mirror and a lens. Concave mirrors are like positive (convex) lenses, in that they bring parallel beams of light together at a single point, called the focal point or focus.

How to draw ray diagrams for a concave mirror? Pick a point on the top of the object and draw two incident rays traveling towards the mirror. Using a straight edge, accurately draw one ray so that it passes exactly through the focal point on the way to the mirror. Draw the second ray such that it travels exactly parallel to the principal axis.

What are the four principles of curved mirrors? The four principal rays in curved mirrors are important because they demonstrate how light is reflected off a curved mirror. These four rays (parallel, incident, reflected, and focal ray) help us understand the behavior of light when it is reflected off a curved mirror.

What is the focal point of a curved mirror? The vertex is the geometric center of the mirror. Midway between the vertex and the center of curvature is a point known as the focal point; the focal point is denoted by the letter F in the diagram below. The distance from the vertex to the center of curvature is known as the radius of curvature (represented by R).

What is the only type of mirror that can produce a real image? Only a concave mirror is capable of producing a real image and this only occurs if the object is located a distance greater than a focal length from the mirror's surface.

What happens when light hits a curved mirror? Convex mirrors cause light to spread out, concave mirrors cause light to go in and create a focal point. But lenses

work the opposite way: concave lenses spread the light out, convex lenses focus the light.

In what other ways can the curved mirrors be useful for? Concave mirrors are used to produce real images, as in astronomical telescopes and specialised optical devices like spectrometers. They are also used to give magnified virtual images for shaving or make up.

What is the f in mirror formula? The distance between the image and the pole of the mirror is called Image distance(v). The distance between the Principal focus and the pole of the mirror is called Focal Length(f).

In what other ways can the curved mirrors be useful for? Concave mirrors are used to produce real images, as in astronomical telescopes and specialised optical devices like spectrometers. They are also used to give magnified virtual images for shaving or make up.

What is the purpose of curved mirrors? Concave mirrors reflect light inward to one focal point. They are used to focus light. Unlike convex mirrors, concave mirrors show different image types depending on the distance between the object and the mirror.

What are the applications of curved reflective surface? What are the most important applications of curved mirrors. Concave mirrors are used to produce real images, as in astronomical telescopes and specialised optical devices like spectrometers. They are also used to give magnified virtual images for shaving or make up.

What are 10 uses of a concave mirror?

What are the three rules of reflection for a curved mirror?

What happens when light hits a curved mirror? Convex mirrors cause light to spread out, concave mirrors cause light to go in and create a focal point. But lenses work the opposite way: concave lenses spread the light out, convex lenses focus the light.

What are the 10 uses of a convex mirror in our daily life? Some common uses of convex mirrors are applied as Rear-view mirrors in vehicles, security mirrors, shaving and makeup mirrors, dental mirrors, telescopes and microscopes, headlights and searchlights.

How are curved mirrors used in daily life? There are numerous uses of concave mirrors in daily life. It is used in aircraft landing to guide the aeroplane, it is used as a torch to reflect the light rays, it is used during shaving to get an erect and enlarged image of the face, etc.

Why do curved mirrors create distorted images? An object reflected in a convex mirror appears closer to the mirror and smaller than it really is. For a concave mirror the skewers point toward each other, and the reflected light rays spread out less. The reflection of an object close to the mirror is bigger and looks farther away.

What are the defects of curved mirrors? Spherical mirrors have an aberration. There is an intrinsic defect with any mirror that takes on the shape of a sphere. This defect prohibits the mirror from focusing all the incident light from the same location on an object to a precise point.

What do curved mirrors do to reflected images? Magnification and Image Formation: When a concave mirror is placed very close to the object, it forms a magnified, erect, and virtual image. The image appears larger than the actual object and is upright. The virtual image is formed as the reflected rays appear to diverge from a point behind the mirror.

What is the most common curved surface used in optical devices? Convex lens – These types of lenses have a surface that curves outwards. This makes light beams diverge toward the focus. This optical lens design is found in telescopes, magnifying glasses, flashlights, spectacles, and contact lenses.

What is the law of reflection on curved surfaces? Law of Reflection & Curved Surfaces The law of reflection says that the angle of incidence is equal to the angle of reflection. Or in less technical language, the angle at which light hits a surface (angle of incidence) is equal to the angle at which light bounces away from the surface (angle of reflection).

What are the five curved reflecting surfaces that you see in your day to day life? Answer: 1st mirrors. 2nd spoons. 3rd plate or any utensils. 4th iron scale.

Which mirror can make a real image of an object? A convex and a plane mirror always form virtual images. Only a concave mirror can form a real image.

Why do dentists use concave mirrors? Dentists use concave mirrors to see teeth and other areas in the mouth. This is because a concave mirror forms a virtual, erect and enlarged image when the object is placed within focus.

How do I find drum notes for a song? Drum notes can be at the same horizontal point on the staff, but they'll be either above or below the other notes. Breaking it down further, drums are represented by dots, whereas cymbals are represented by an X. Both have stems attached like sheet music notes.

What key is Counting Stars by OneRepublic in? Counting Stars is written in the key of C? Minor. According to the Theorytab database, it is the 9th most popular key among Minor keys and the 21st most popular among all keys.

Do you read notes for drums? To read drum notation, you need to learn the different symbols. These symbols tell you what part of the drum set to play and when. By learning how to read drum notation, you'll be able to quickly play a rhythm or drum beat, even if you've never heard it before.

What instruments are used in OneRepublic Counting Stars? Typically used instruments include the electric guitar, bass guitar, drums, vocals, keyboards, and synthesizers .

How do you count drum notes? In the time signature, the top number tells you how many beats are in each measure. The bottom number tells you the value of each beat. For example, 4/4 time has 4 beats per measure and each beat is worth one quarter note. 6/8 time has 6 beats per measure but each beat is worth one eighth note.

What is a ghost note on drums?

Is counting stars a major or minor key? So, instead of counting sheep, we're counting stars." Sheet music for "Counting Stars" is in the key of C? minor with a tempo of 107.6 beats per minute before increasing to 122 beats per minute, following a chord progression of C?m-E-B-A.

Why did Ryan Tedder write Counting Stars?

What genre is OneRepublic? OneRepublic is an American pop rock band consists of six members, Ryan Tedder (vocalist), Zach Filkins (guitarist), Drew Brown (guitarist), Brent Kutzle (bassist & cellist), Eddie Fisher (drummer) and Brian Willett (keyboardist). Their genres are pop-rock, pop, alternative-rock.

What famous drummers don't read music? Ringo Starr, John Bonham, Chad Smith, and Buddy Rich are just a few famous players who never took lessons - and who most likely never read a musical note. Legend has it Buddy Rich would listen to the band play the tune once, then he'd jump on the kit and play it. No chart, no notation.

Can I learn drums without notes? A drummer can actually get by if he did not read notes or know his rudiments and many drummers have become successful by not able to do either.

Do drummers know notes? Many drummers learn to play by reading drum notes. Some drummers even read music professionally when they play gigs and do session work. However, it's not necessary to read notes to be able to play the drums. It's one of the few instruments that you can pick up and play without having any knowledge of music theory.

How many instruments can Ryan Tedder play?

Is OneRepublic alternative rock? OneRepublic is often described as a pop-rock band, but some of their songs lean more toward alternative rock or pop. They formed in 2002 and released their first album, "Dreaming Out Loud," in 2007.

How many views does Counting Stars have? Not many can claim a spot in the Top 20 most viewed YouTube videos of all time, but OneRepublic's "Counting Stars" has earned its place with over 4 billion views on the platform. While the world easily

embraced the song as an instant hit, the journey to the band's individual success wasn't so straightforward.

What notes should my drums be? You'll find that with most common drumheads, you can explore the following fundamental pitch range for a snare drum: 14 inch snares: 164.8 Hz (E3) – 220.0 Hz (A3) 13 inch snares: 174.6 Hz (D3) – 233.1 Hz (A3#)

Are drums hard to learn? Drumming can be both easy and hard. If you find that you pick up rhythms quickly, you have natural coordination, and you can clap in time, you may find that learning drums is easier for you than someone who struggles with these things. But like any new undertaking, there can always be a bit of a learning curve.

How do drummers count 32nd notes? In other words, you don't have a verbal count for each individual note, but instead - you just count every second note. This makes counting 32nd notes identical to how you would count sixteenth notes. The only difference is that you play two notes for every count.

Are there blind drummers? Members' Voice: My Journey as a Blind Drummer, Sound Engineer and Educator. MU member Steve Burge reflects on the challenges and opportunities that have shaped his career in the music industry, and his hopes for more inclusive music teaching and playing.

What is a dead note?

Are ghost notes hard? The trick with playing ghost notes in grooves is that you need to work on playing ghost notes, standard strokes, and accents altogether. It's easy to play ghost notes alone. It's a lot harder to play a ghost note just before playing an accent. So, the best thing to do is to play a basic rock beat.

What key is Counting Stars by OneRepublic? The track runs 4 minutes and 17 seconds long with a C#/D? key and a minor mode.

How many chords does Counting Stars have? Counting Stars: Chord Progression This song has a simple, repetitive structure that uses the same four chords, A minor, C, G, and F, all the way through. You'll find that the simplicity of the chord structure makes it a great song for practicing chord transitions and

experimenting with different playing styles.

What is the least popular minor key? A-sharp minor has the enharmonic equivalent of B-flat minor. This is often used in most musical compositions instead of A-sharp minor, because A-sharp minor is not a useful key for compositions and is one of the least used minor keys in music.

How do you figure out what notes are played in a song? Once you've identified if the song is major or minor, you can then- using your musical scales on your instrument- figure out the notes that work within that key. A helpful guide would be to reference a chart to determine what notes fit within a key (for example, in the key of G you have notes G, A, B, C, D, E, and F?).

How do I find the notes of a song by ear?

What is the app that transcribes drums? Drumstik is the only application that allows you to create scores while playing directly on your electronic drum kit! You have an idea ? Need to quickly lay down your inspiration? Launch Drumstik, play your groove to generate your transcription automatically!

What notes are drums playing? What are the notes of drums? You need to learn about subdivisions when playing the drums. These are rhythmic patterns that make up drumming and rhythm in general. The most common ones to know are quarter notes, eighth notes, eighth note triplets, sixteenth notes, sixteenth note triplets, and thirty-second notes.

Is there an app that can identify notes in a song? Find the Note Pitch Detector uses your device's mic to identify musical notes.

How do I find the notes on my keyboard for a song?

How can I train my ears to recognize notes? Practice identifying intervals in isolation to get a good grasp of how basic intervals sound. Once you feel good with that and can manage a high score, try identifying intervals in context. This interval training tool plays intervals melodically, meaning one after another. Give it a shot and see how well you do!

How to easily find the key of a song? Play the song. Listen for the tonal center - the note that seems to define the song. Play an instrument at the same time, note by note, and listen to which note sounds the most compatible. This should be the song's key!

How to figure out the key of a song by ear?

How to find the melody notes of a song?

What is the best free app for drummers? 1) Drumeo (iOS/Android) Drumeo is by far the biggest and best online lesson platform available to drummers, both new and experienced. The Edge learning system features a step-by-step learning curriculum that includes 1,000+ songs and practice tools. Live support is also provided by some of our favorite drum heros.

Is drumeo free? Learn, practice, and play as much as you want... for free!

What app separates drums from music?

What does z mean in music? The Z means buzz. The marking above it is a tenuto and a staccato, which is probably a typo.

Can I learn drums without notes? A drummer can actually get by if he did not read notes or know his rudiments and many drummers have become successful by not able to do either.

Are drums tuned to specific notes? While drums generally aren't tuned to specific pitches, they do need to be tuned to produce clear, full tones. Learning how to tune your drum set will make you sound better and encourage you to play more often.

Does Hal Higdon still run? Higdon has slowed his own pace recently (well, he did run seven marathons in seven months for his 70th birthday) and now opts for lower-impact workouts. He bikes two and a half miles to his favorite coffee shop, Al's Supermarket, with his wife, Rose. That, he said, "is what has allowed me to live to a jolly old age."

Is run with Hal free or paid? The official Run With Hal app will help you train year round and adapt to your experience, schedule, and target race. Run With Hal is free

to download and use basic features, then you can unlock full personalization with a monthly subscription to Hal+. Get a free two-week trial to Hal+ today!

How many marathons did Hal Higdon run? He led through 19 miles before being passed by the eventual winner and held on for 5th place and 1st place American finisher, clocking a personal best 2:21:55. Over 111 marathons, Higdon has tallied four overall victories and numerous age-group firsts.

How many 20 miles before a marathon? And doing a 20 miler at least 4 weeks out from goal race is workable. Anything closer jeopardizes fitness, may cause breakdown, sickness or even injury. The longest you should go is 2:45 as beyond that the muscle fibers in your legs incur damage, which then takes days or even several weeks to repair.

How many miles a week should I run marathon training? For a professional runner whose job it is to train and recover, you might see a range of 90 to 140 miles a week when training for the marathon. For someone who's been running many years and is experienced but works full-time, they might run 50 to 70 miles a week.

Is Coopah or Runna better? However, the app lacks any motivational phrases or active coaching as you run, as its competitor app Runna provides, it won't tell you to increase your pace, to keep on target or tell you how to up your cadence, but it does give you basic data at the end.

What is the app that helps you train for a marathon? Run With Hal is Hal Higdon's official adaptive training app. Set a target race, input your experience, and watch Hal match you with the perfect plan. Get the same workouts and daily tips you know and love, customized to your schedule, experience level, and target race.

How long does it take to train for a marathon? Generally speaking, it takes between 12 and 20 weeks to train for a marathon, but most plans are 16 to 20-weeks. No matter your level of experience, you do need three to six months to be ready to run this distance. The race is a marathon, but so is the training!

What are the hardest miles in marathon? But it also means the toughest part is yet to come. In fact, many runners consider the marathon two races in one: the first 20 miles and the last 10-K. That's because in the last 10-K, you're exerting the most

effort.

What happens to your body in the 48 hours after a half marathon? In the 48 hours after a marathon, the body undergoes muscle repair, experiences inflammation, and requires proper hydration and nutrition for recovery. Rest and sleep are essential, and the immune system begins to recover.

Who run 7 marathons in 7 days? Not Only Did He Run 7 Marathons on 7 Continents in 7 Days—He Won Them All. Despite crazy weather, travel delays, and hundreds of miles, David Kilgore came out on top of the World Marathon Challenge. David Kilgore loves running.

The Power Supply Handbook: A Q&A Guide

1. What is a power supply?

A power supply is a device that converts alternating current (AC) electricity from a wall outlet into direct current (DC) electricity that can be used by electronic devices.

2. What are the different types of power supplies?

There are three main types of power supplies:

- **Linear power supplies** use a transformer to reduce the AC voltage from the wall outlet to a lower voltage. This voltage is then rectified and filtered to produce DC electricity.
- **Switching power supplies** use a switching transistor to chop the AC voltage from the wall outlet into a high-frequency square wave. This square wave is then rectified and filtered to produce DC electricity.
- **Uninterruptible power supplies (UPS)** provide backup power to electronic devices in the event of a power outage. UPSs typically use batteries to store energy, which is then converted into DC electricity to power the devices.

3. What are the important specifications to consider when choosing a power supply?

The most important specifications to consider when choosing a power supply are:

- **Output voltage:** The output voltage of the power supply must match the voltage required by the electronic device.
- **Output current:** The output current of the power supply must be sufficient to power the electronic device.
- **Efficiency:** The efficiency of the power supply is a measure of how much power is wasted as heat. A higher efficiency power supply will waste less power and run cooler.
- **Form factor:** The form factor of the power supply is important if the power supply needs to be mounted in a specific location.

4. What are some common problems associated with power supplies?

Some common problems associated with power supplies include:

- **Overheating:** Power supplies can overheat if they are overloaded or if they are not properly ventilated.
- **Voltage spikes:** Power supplies can experience voltage spikes when they are turned on or off. These spikes can damage electronic devices.
- **Ripple:** Power supplies can produce ripple, which is a small amount of AC voltage that is superimposed on the DC voltage. Ripple can interfere with the operation of electronic devices.

5. How can I troubleshoot a power supply?

If you are experiencing problems with a power supply, you can try the following troubleshooting steps:

- **Check the output voltage:** Use a multimeter to measure the output voltage of the power supply. The output voltage should match the voltage required by the electronic device.
- **Check the output current:** Use a multimeter to measure the output current of the power supply. The output current should be sufficient to power the electronic device.

- **Check for overheating:** Feel the power supply to see if it is hot. If the power supply is hot, it may be overloaded or it may not be properly ventilated.
- **Check for voltage spikes:** Use an oscilloscope to check for voltage spikes when the power supply is turned on or off. If you see any voltage spikes, they may be damaging the electronic device.
- **Check for ripple:** Use an oscilloscope to check for ripple on the output voltage of the power supply. If you see any ripple, it may be interfering with the operation of the electronic device.

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