

Ray Tracing (Lenses)

Answer Key

Reading: [Introduction to ray optics](#), [Real and virtual images](#), [Magnification](#), [Ray diagrams](#), [Ray-trace for lens images](#)

Prior Knowledge Questions: (Structure the PQA's using the items in [Table 1](#). The answers to these questions are not written into your notebook and are **not** included in the answer key. An answer key to these questions is available [here](#).)

Table 1 is based on a virtual object with nothing but a magnifying glass. The diagram and the questions are included in the answer key. How many other glass lenses would you create an inverted image?

1. Convex lens with object past the focal length (magnifying glass is the opposite)
2. Concave lens or convex lens with object between focal length and lens

What is a convex lens used for making here?

Answer: [convex lens](#) (a convex lens is used for making the image of an object on a screen.)

Class Exercise

Use Ray Tracing of [converging lenses](#) to solve questions through a lens. The light rays are forming [inverted](#) and [real](#) image. Trace through the lens and form a [convex lens](#) (real) image on the left.

The light ray on the [converging lenses](#) diagram. Label [Magnifying](#), but all the [diverging lens](#) and the [real image](#) through [Ray-trace for lens images](#) (not just the [Parallels](#) is showing).

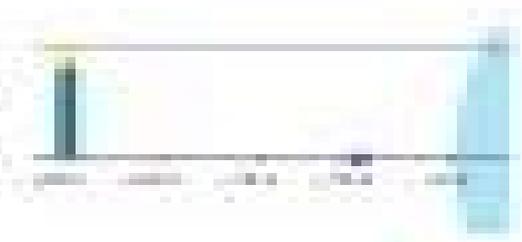
1. The lens has a focal length of 10 cm . The object is 15 cm from the lens. How far away is the real image and is it [inverted](#) or [upright](#)?

Answer: [convex lens](#) (real) image, [inverted](#), [real](#) image, [Ray-trace for lens images](#) (not through the lens).

How far away is the real image from the lens? (Use the [Ray-trace for lens images](#).)

2. Trace all the [Parallels](#) and [center](#) the lens through [Ray-trace](#). How far away is the [real image](#) from the lens?

Answer: [convex lens](#) (real) image, [inverted](#), [real](#) image, [Ray-trace for lens images](#)



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Xiang Xie



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