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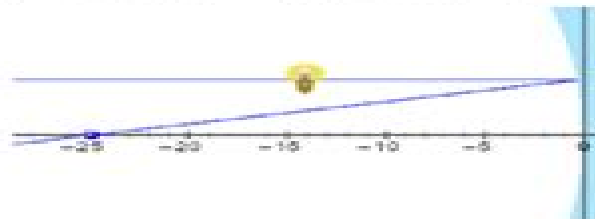
Student Exploration: Ray Tracing (Mirrors)

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

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 reflected ray always passes through the focal point

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?

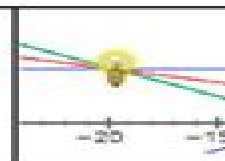
The reflected ray is horizontal and parallel to the axis of the mirror.

Activity A:

Real and virtual images

Get the Gizmo ready:

- Check that the **Concave mirror** is selected.
- Turn on the **Parallel line**, **Central line**, and **Line through focal point**.
- Place the light bulb above -24 on the central axis, with the focal point at -12.



Introduction: A concave mirror is also called a "converging mirror" because it reflects light rays into a point. A **real image** is formed where the reflected light rays converge at a point. Unlike a **virtual image** that forms behind a mirror, a real image can be projected onto a screen.

Question: How do mirrors create real and virtual images?

Mirrors create real images when light rays converge and virtual images when they appear to diverge, based on the reflection of light according to the law of reflection.

Ray Diagrams Gizmo Answers

Terry C. Jones

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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