

## Light - Reflection and Refraction - Class X - Paper Set 2

- The bending of light when it passes from one medium to another is called:
  - Reflection
  - Refraction
  - Dispersion
  - Diffraction
- The mirror formula is represented as:
  - $\frac{1}{f} = \frac{1}{v} + \frac{1}{u}$
  - $\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$
  - $f = u + v$
  - $f = u - v$
- In a convex lens, the principal focus is located:
  - In front of the lens
  - At the center of curvature
  - Behind the lens
  - At infinity
- A virtual image formed by a concave mirror occurs when the object is:
  - At the principal focus
  - Beyond the center of curvature
  - Between the pole and the principal focus
  - At infinity
- A magnification value of -1 means that the image is:
  - Virtual and smaller
  - Real and inverted, same size as object
  - Real and larger
  - Virtual and larger
- A convex lens with focal length 10 cm forms an image at 20 cm; the object distance is:
  - 5 cm
  - 10 cm
  - 15 cm
  - 20 cm
- A lens with a focal length of -20 cm is:
  - Convex
  - Concave

