

$\mu = \frac{1}{\sin C}$ where $\mu =$ refraction index of denser medium.

Homeworks

1. Differentiate between concavo-convex lens and convexo-concave lens. (Two parts).

Concavo convex lens

- It is a lens with a width the front side convex and back side has more curvature.
- It is a lens with the front side concave and back side convex with the front side having the greater curvature.

Concavoconvex lens is a convex-glass lens.

Convexoconcave is a concave-glass lens.

2. What is the reason behind the sparkling of a diamond?

Diamonds do sparkle because their refractive index is very high other than any

transparent object and is shaped in such a way that the critical angle is very less (which the light rays reflect only in one direction) internally.

3. In which case the converging will be more, Bi-convex or Plano-convex.

Both bi-convex lens and plano convex lens converge the light rays equally because if we take both the kinds of lenses with same radii or of curvature, the light rays will meet at focus.

And if we measure the focal length of lenses, it would be same.