

Q Differentiate between Concavo-convex lens and convexo-concave lens.

Ans	Concavo convex lens	Convexo-concave lens
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(i)	It is thinner at top and bottom and thicker at the middle.	(i) It is thinner at the middle and thicker at top and bottom.
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(ii)	The concave face has a <del>greater</del> <sup>less</sup> degree of curvature than the convex face.	(ii) The concave face has greater degree of curvature than the convex face.
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Q: What is the reason behind the sparkling of a diamond?

Ans With proper edges and cuts, large no. of rays of light will enter the face and undergo total internal reflection. Rather than refraction when multiple no of rays of light emerges out of the same face, it seems sparkling.

Q: In which case the converging will be more, Bi convex or plano convex? Justify.

Ans. Bi convex lens will be more converging. The focal length of bi convex lens is dependent upon the curvature angle of its faces. Higher angles of curvature result

is shorter focal lengths.