

real depth - apparent depth = shift

→  $8 - 5 = 3 \text{ cm}$

So, fig ~~① crossed~~ will appear to be raised by 3cm.

HW - 1/7/21

① Differentiate between concavo-convex lens & convexo-concave lens.

Ans Concavo-convex lens and convexo-concave lens differ in their shape & action.

\* Concavo-convex lens is thicker in the middle and has a converging action on a light beam, while a convexo-concave lens is thinner in the middle and has a diverging action on a light beam.

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



Ans - A piece of diamond sparkles when viewed from certain directions because of total internal reflection.

③ In which case the converging will be more, Bi-convex or plano-convex? Justify.

Ans -



Bi-convex.



plano-convex.

\* A biconvex lens has both its surfaces convex while a plano convex has one surface plane & the other surface convex, so, ~~biconvex lens~~ converging will be more on case of biconvex lens.