

Image formation by concave lens

Questions

1. Does a concave lens form a real image for a real object?
2. What happens to the size of a virtual image as the object is moved away from the lens?
3. Can a virtual image formed by the concave lens be enlarged?
4. For a virtual image formed by the lens, how does image distance vary as the object is moved away from the lens?
5. Does the image distance of a virtual image vary linearly with the object distance?
6. For what value of object distance is the virtual image half the size of the object?
7. Plot a graph of image distance (v) as a function of object distance (u).
8. Plot the graph of ($1/v$) as a function of object distance ($1/u$).

Note :

Questions given above may be visualized and answered using the simulations. Obtaining a mathematical solution is to be always treated as the final answer because such a mathematical solution implies that one is able to understand and apply the concept.

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