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20 cm

[PHY406] A plano-convex lens of refractive index 1.5 and radius of curvature 30 cm is silvered at the curved surface. Now this lens has been used to form the image of an object. At what distance from this lens, an object be placed in order to have a real image of the size of the object ?
20 cm

[PHY406] Image formed by plane mirror is
Real and erect

[PHY406] Image formed by plane mirror is
Virtual and erect

[PHY406] Convex lens focus a real, point sized image at focus, the object is placed
At infinity

[PHY406] An astronomical refractive telescope has an objective of focal length 20 m and an eyepiece of focal length 2 cm. Which one of the following is not correct?
An objective of a larger aperture will increase the brightness and reduce chromatic aberration of the image

[PHY406] A concave mirror gives real, inverted and same size image if the object is placed
At C

[PHY406] In optics an object which has higher refractive index is called
Optically rarer

[PHY406] Power of the lens is -40, its focal length is
-0.25m

[PHY406] The optical phenomena, twinkling of stars, is due to
Atmospheric refraction

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