

LIGHT ENERGY



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0772 509594

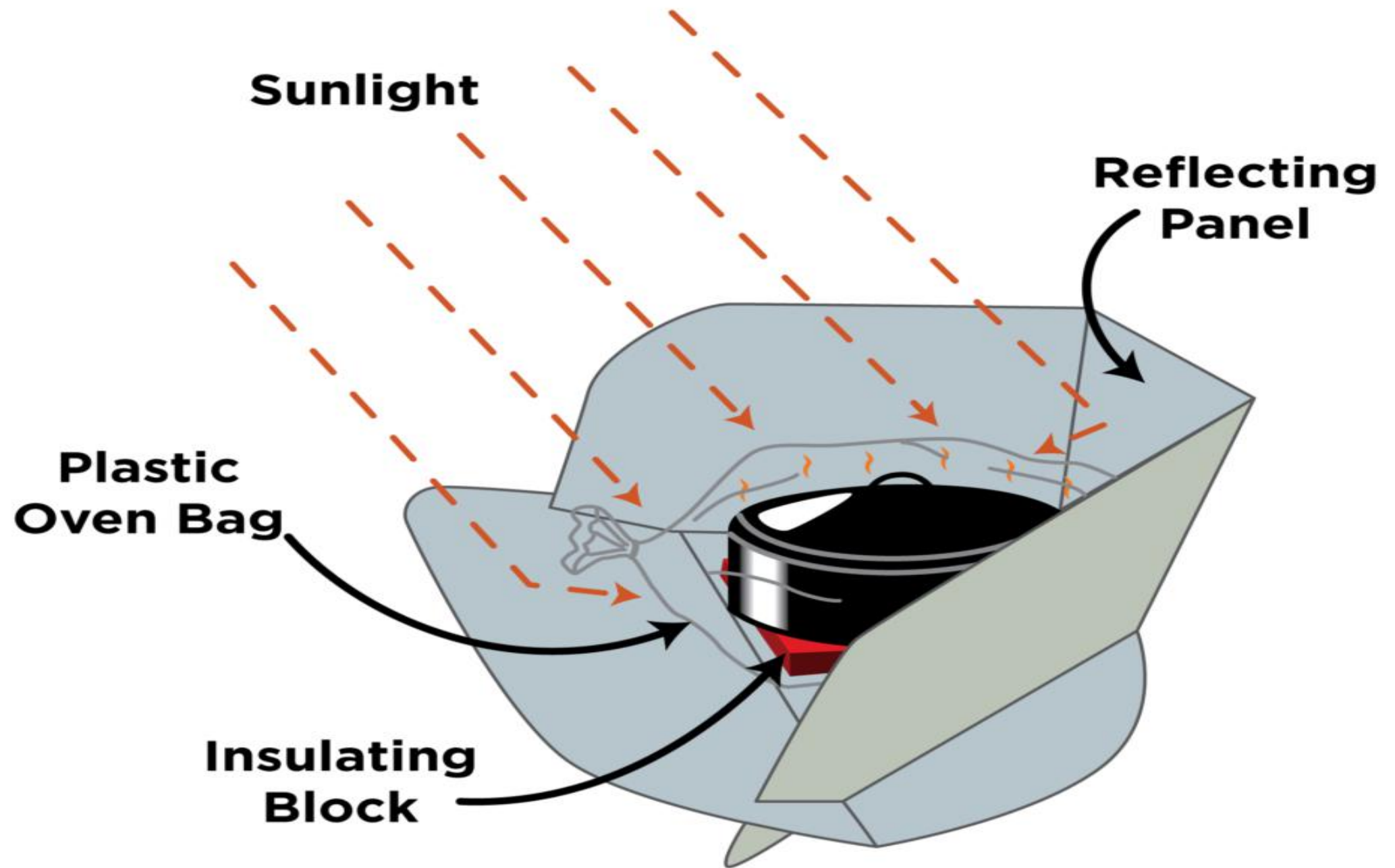


A parabolic solar cooker







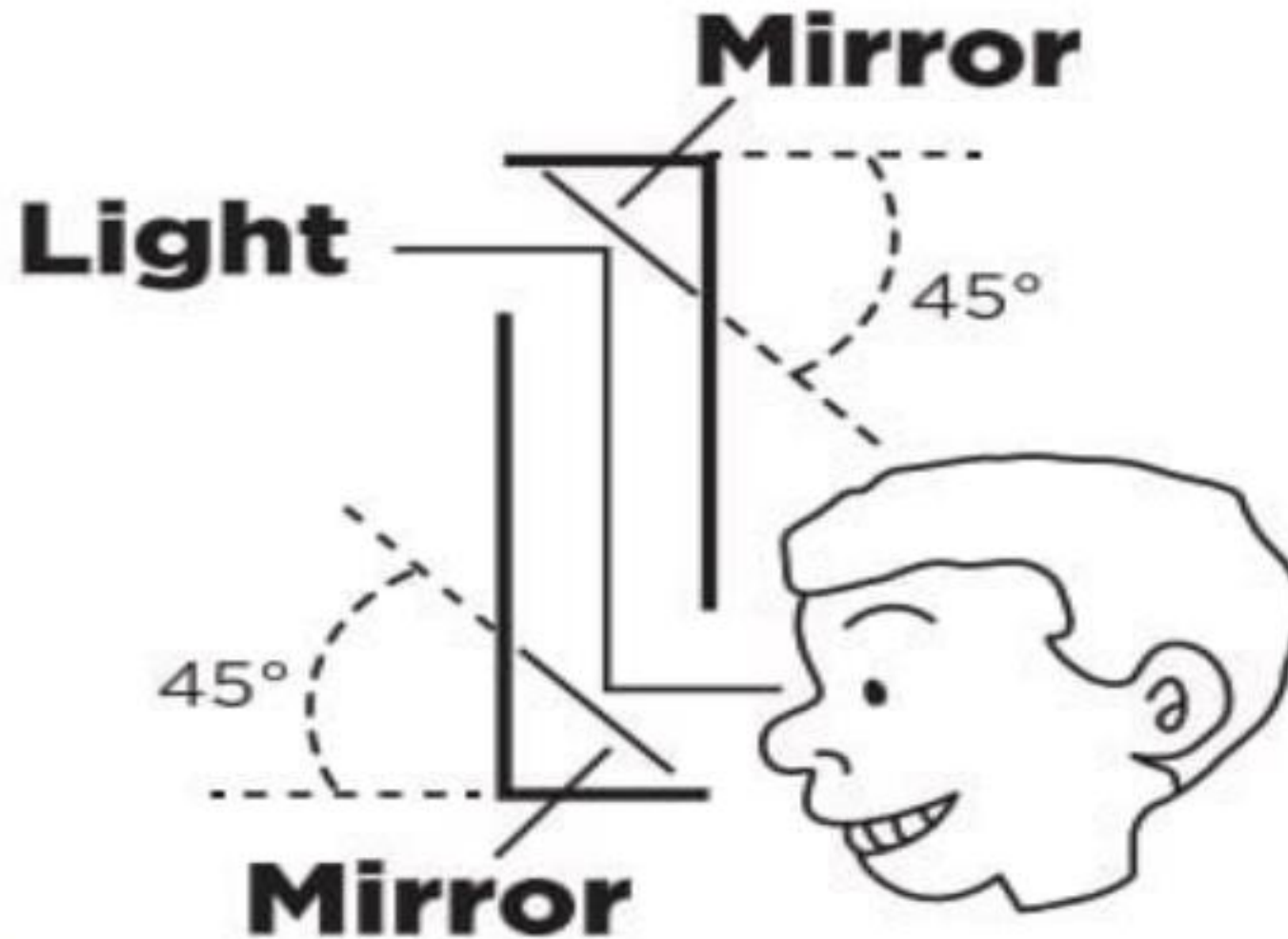




PERISCOPE



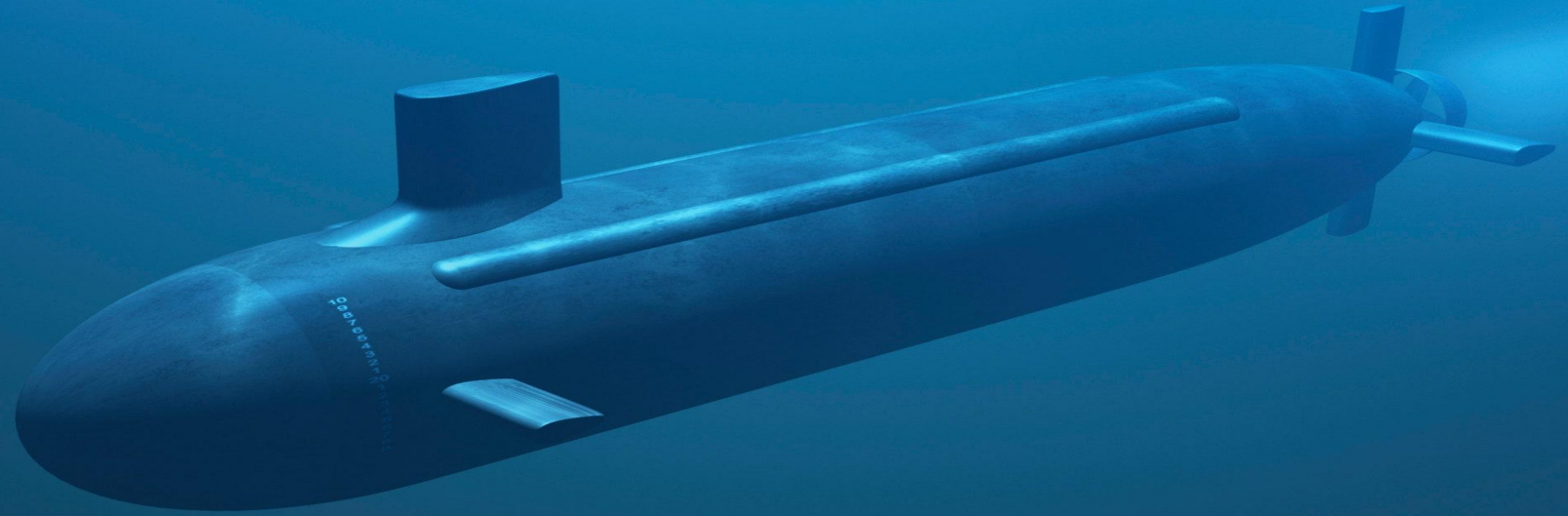
A periscope

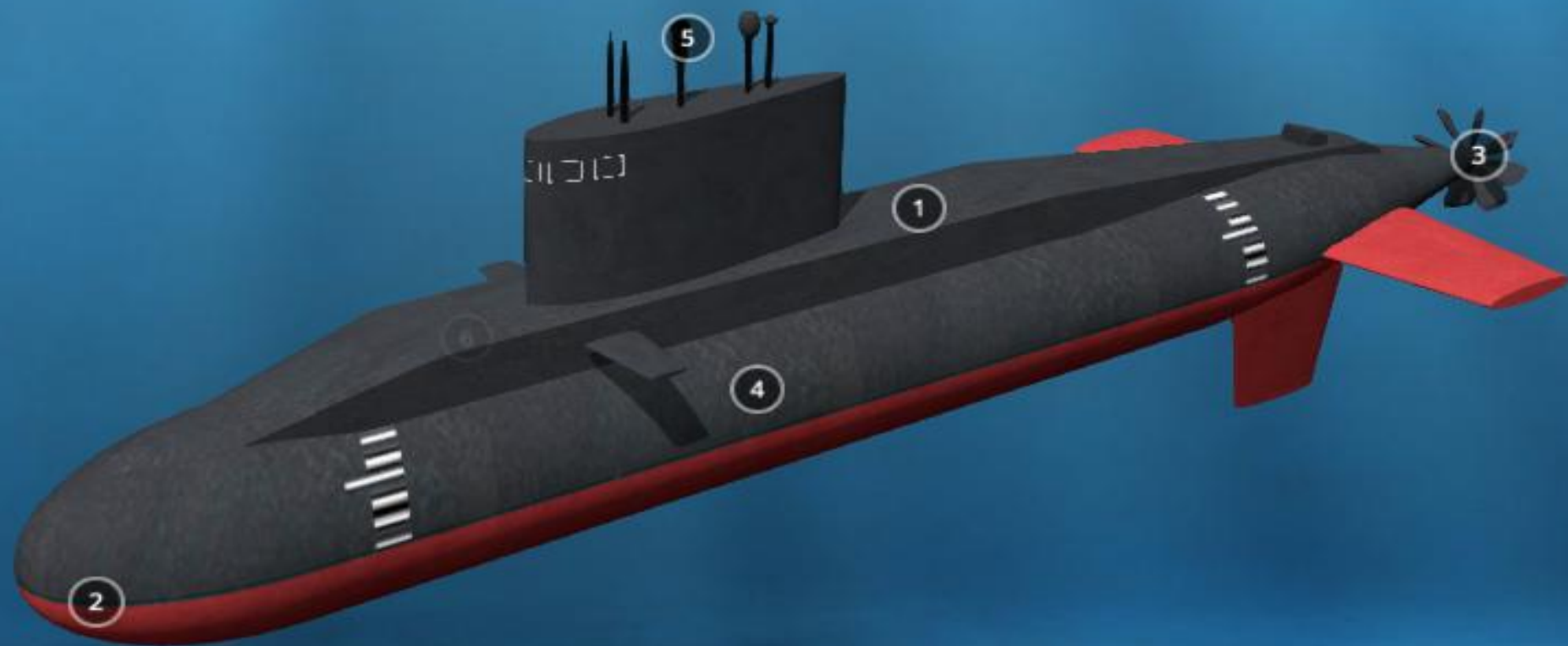


Uses of a periscope

- **It is used by submarines to see ships on the water surface**
- **Used by soldiers to see enemies ahead without exposing their heads**
- **Periscopes are used to see around corners**

A periscope is used in submarines to see ships at the water surface





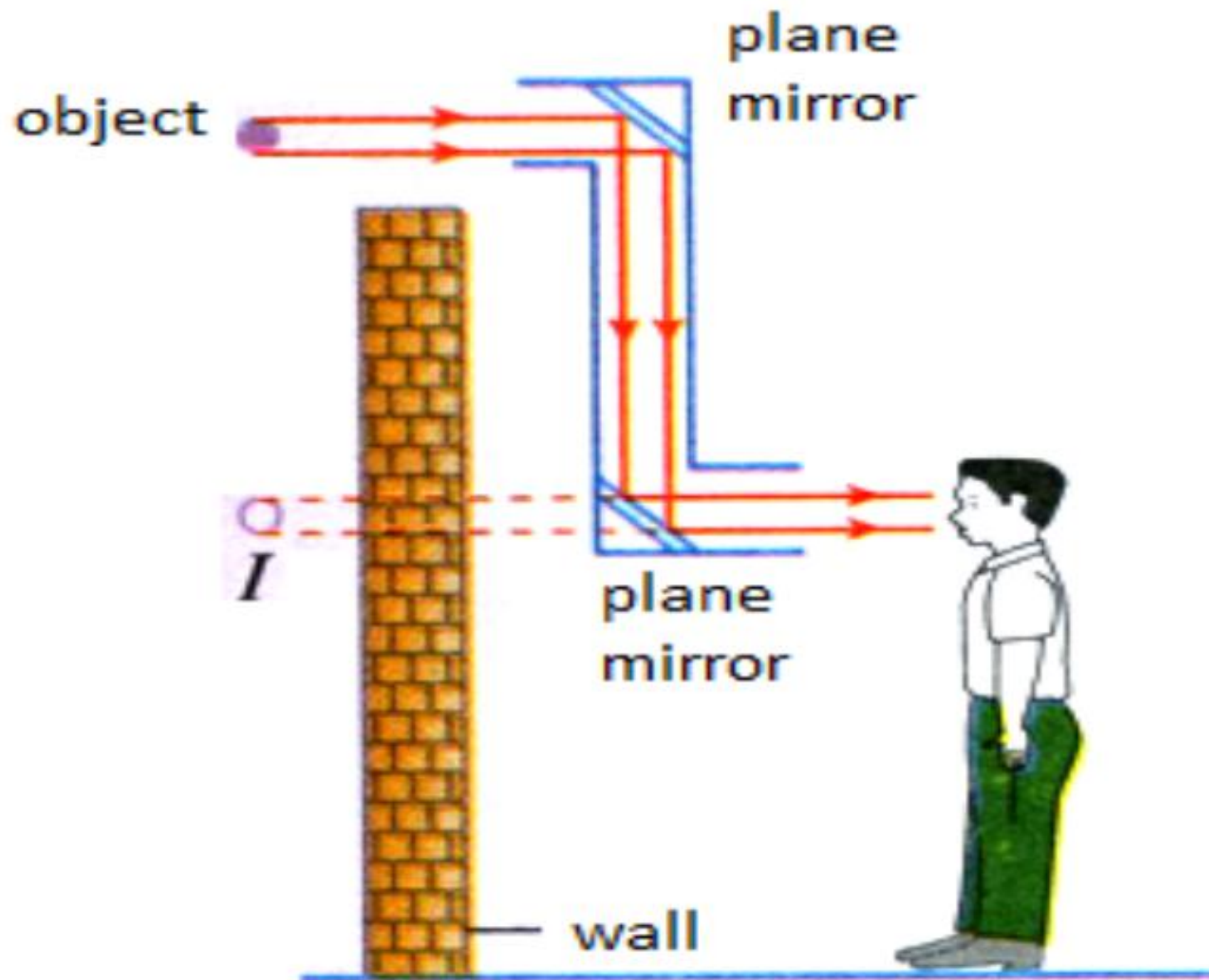


A periscope is used by soldiers to see their enemies without exposing their heads





mt. Ponakine - Italy



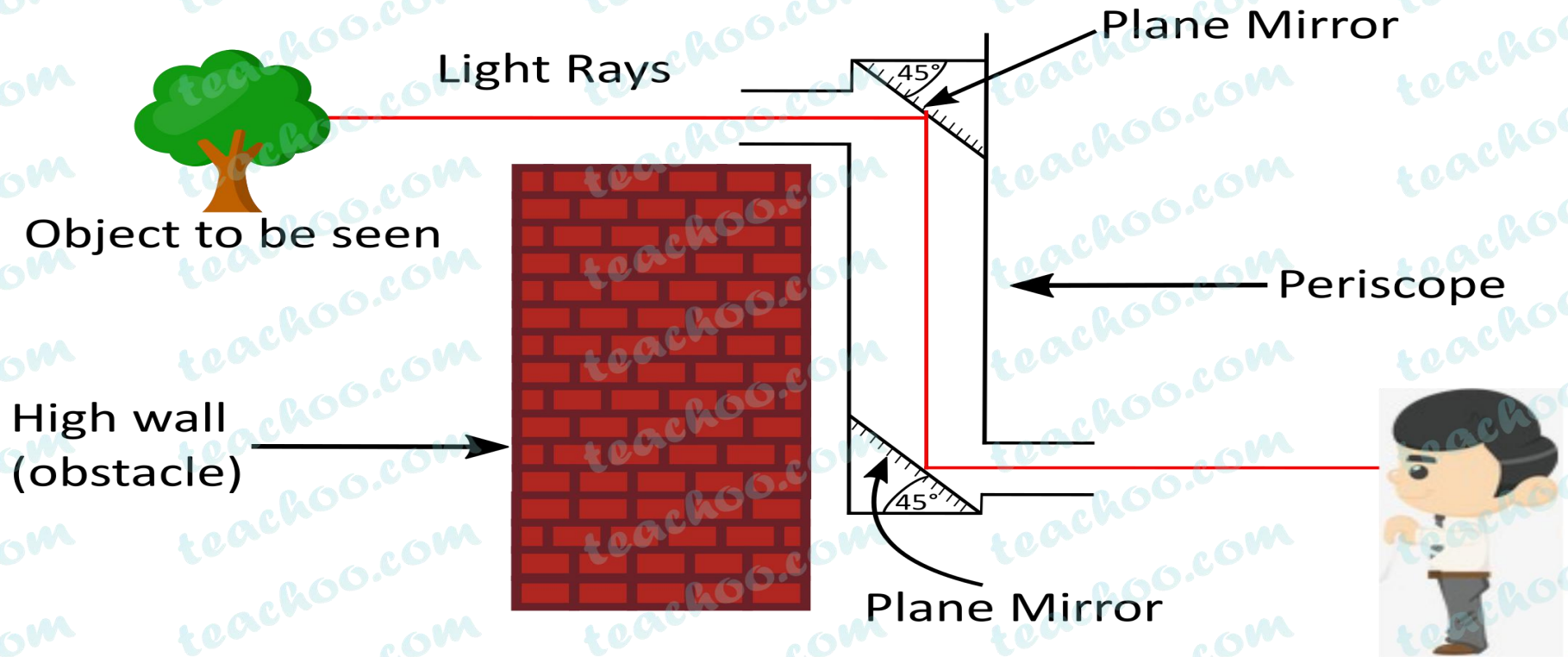
A periscope is used to see around corners



Under which principle of light do periscopes operate

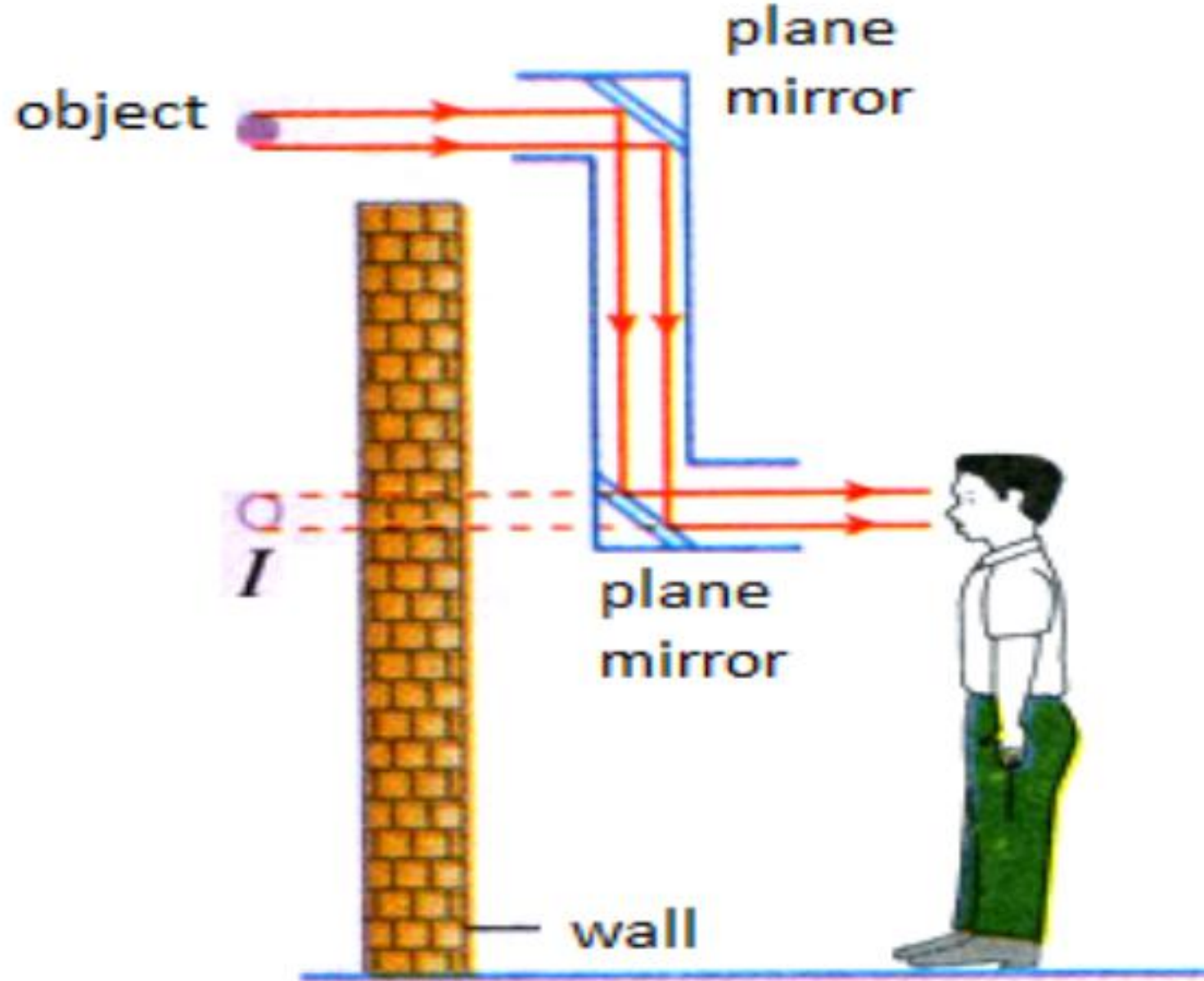
Periscope

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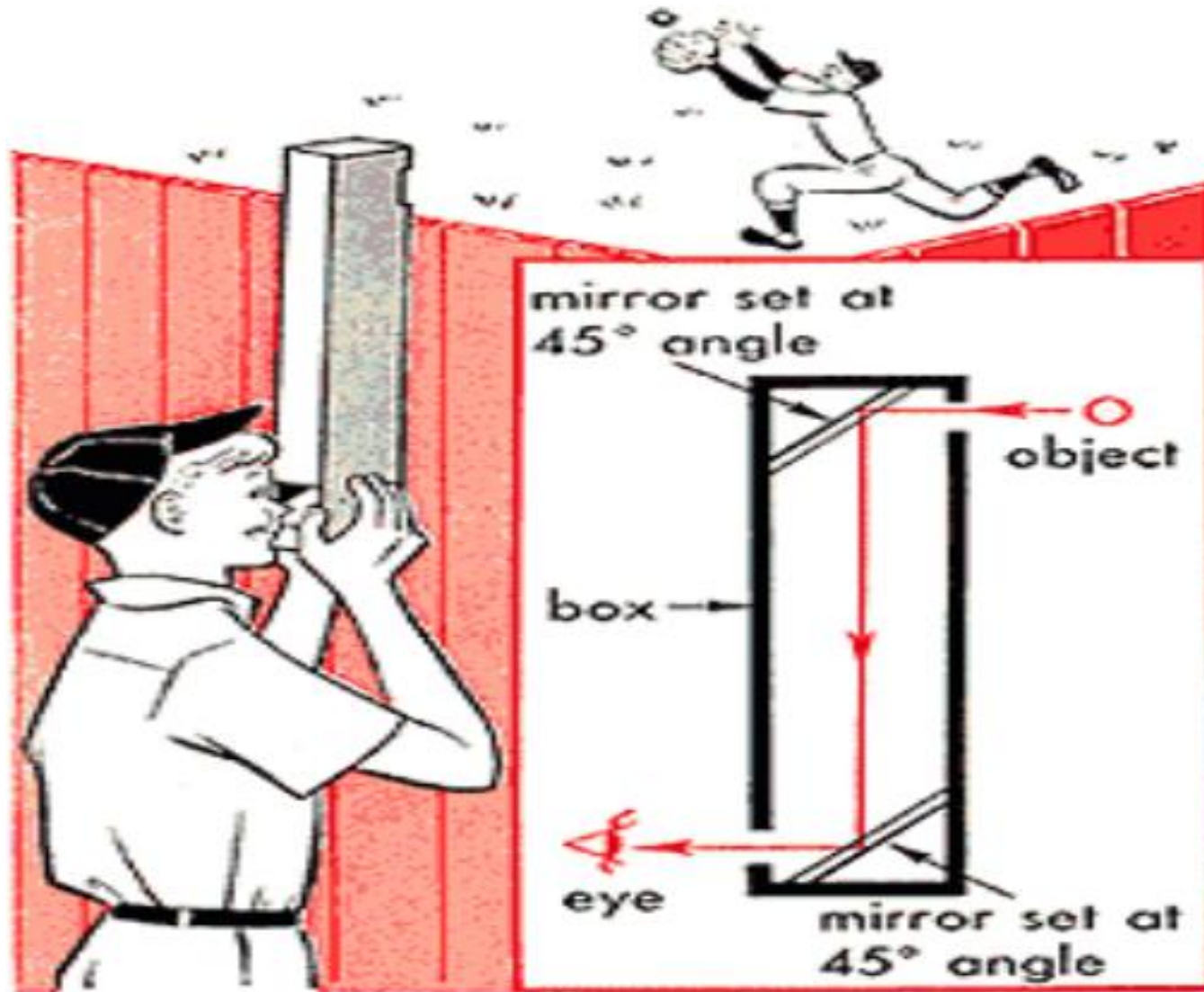


Light can be reflected

Periscopes use plane mirrors



Mirrors in periscopes are put at an angle of 45 degrees



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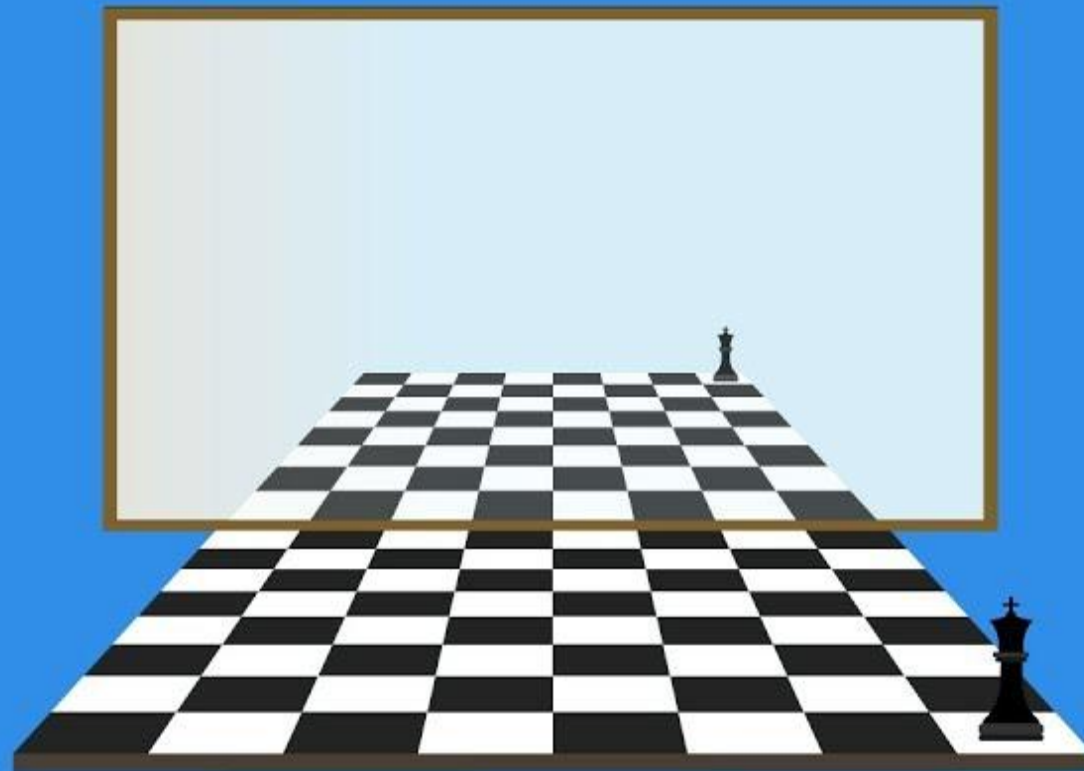
PLANE MIRRORS





PLANE MIRROR

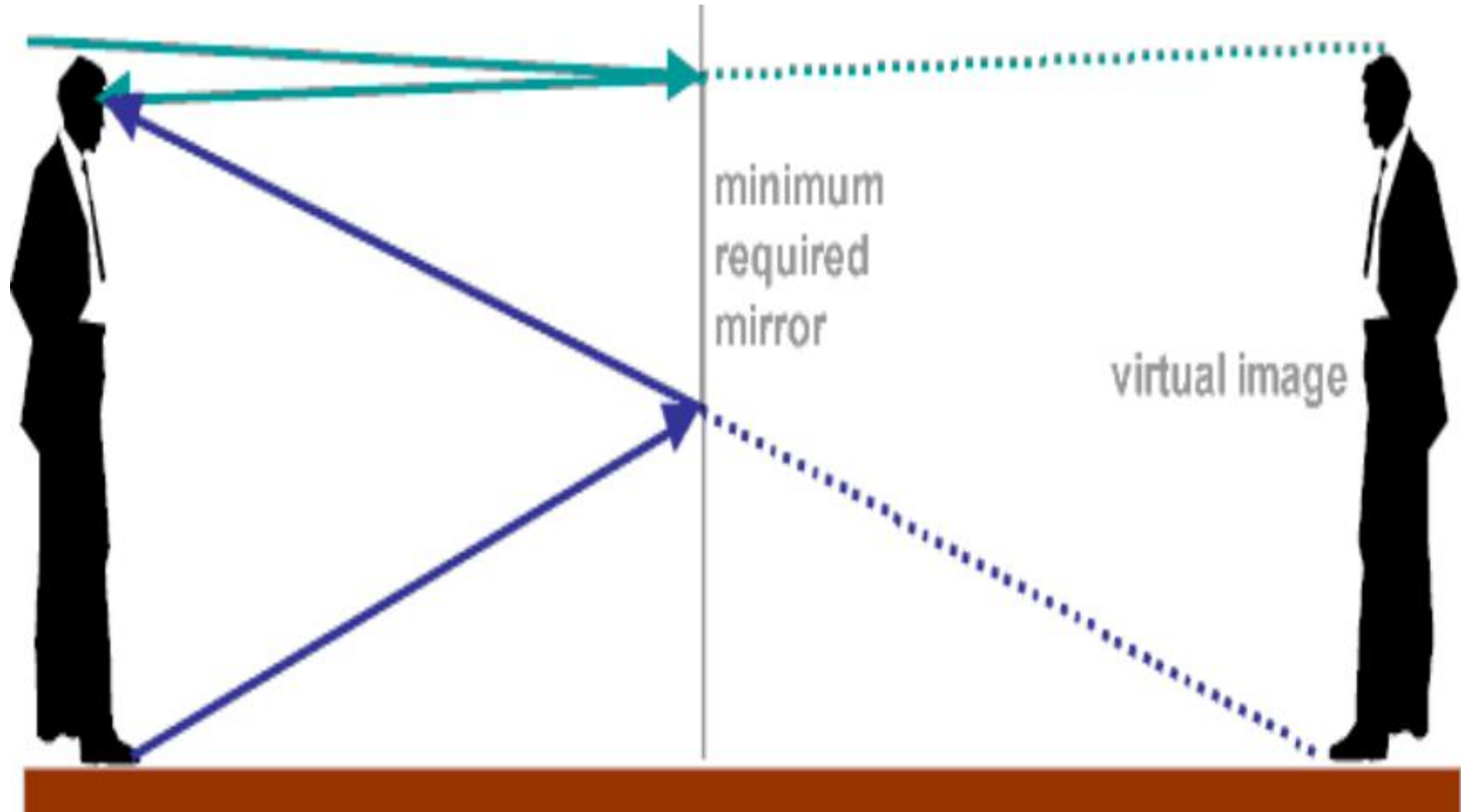
(IMAGE CHARACTERISTICS)



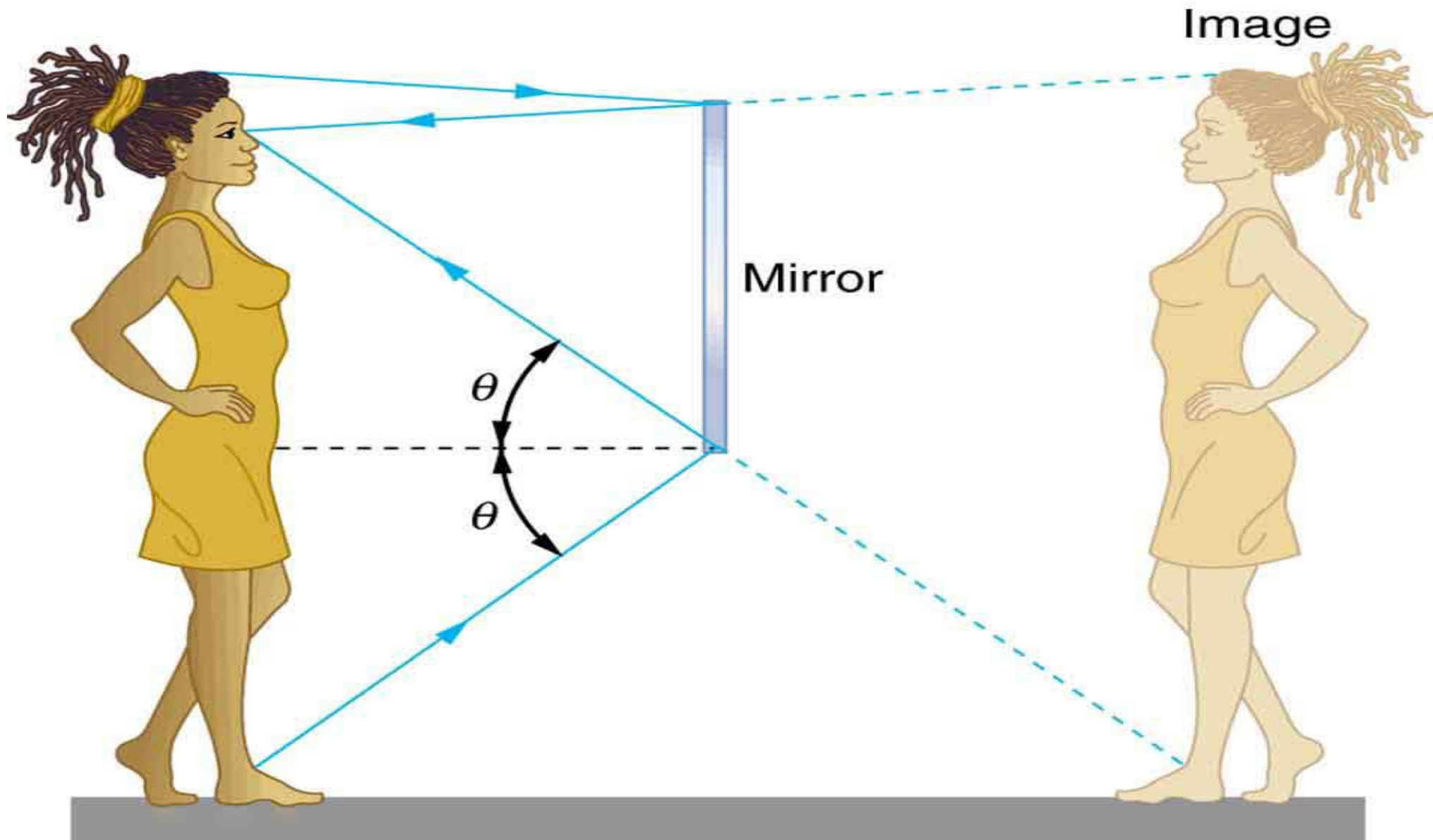
Characteristics of images formed by plane mirrors

- **The image is upright**
- **The image is laterally inverted**
- **The image distance is equal to the object distance from the mirror**
- **The image is of the same size as the object**
- **The image is virtual / not real**
- **NB**
- **Virtual images are images that are not formed on the screen**

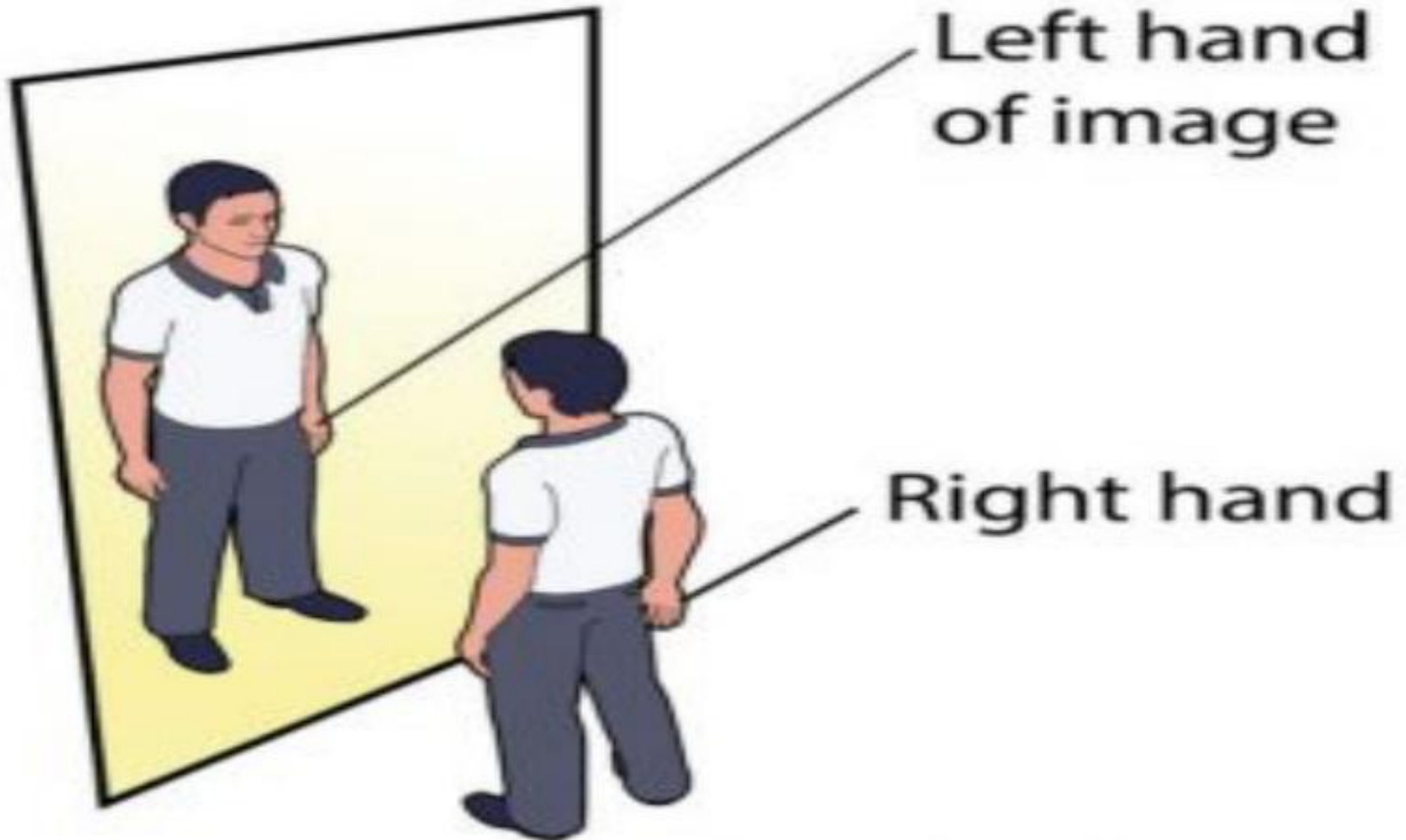
The image is virtual (not real)



The image is upright

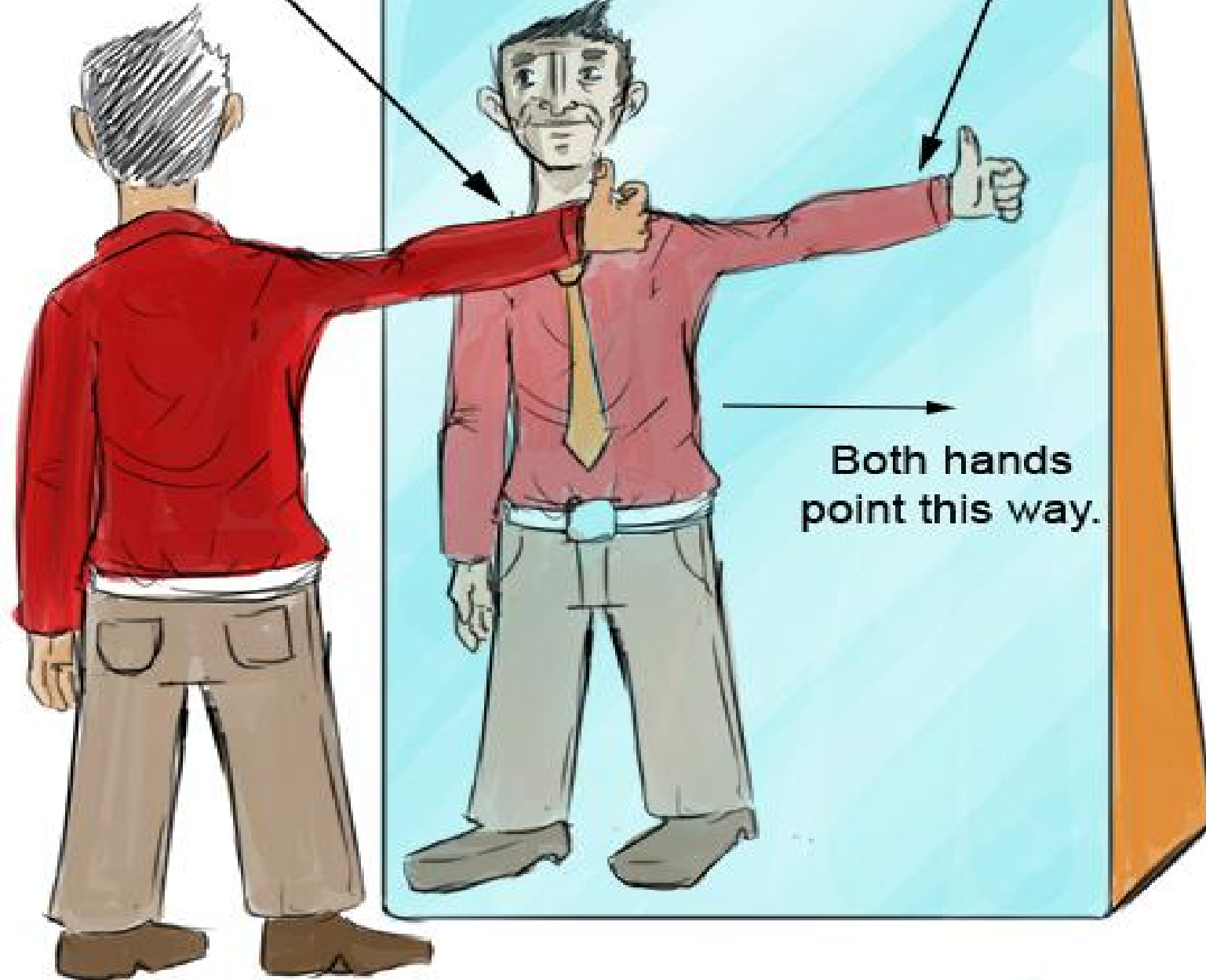


The image is laterally inverted



Right Hand

Left Hand on Image



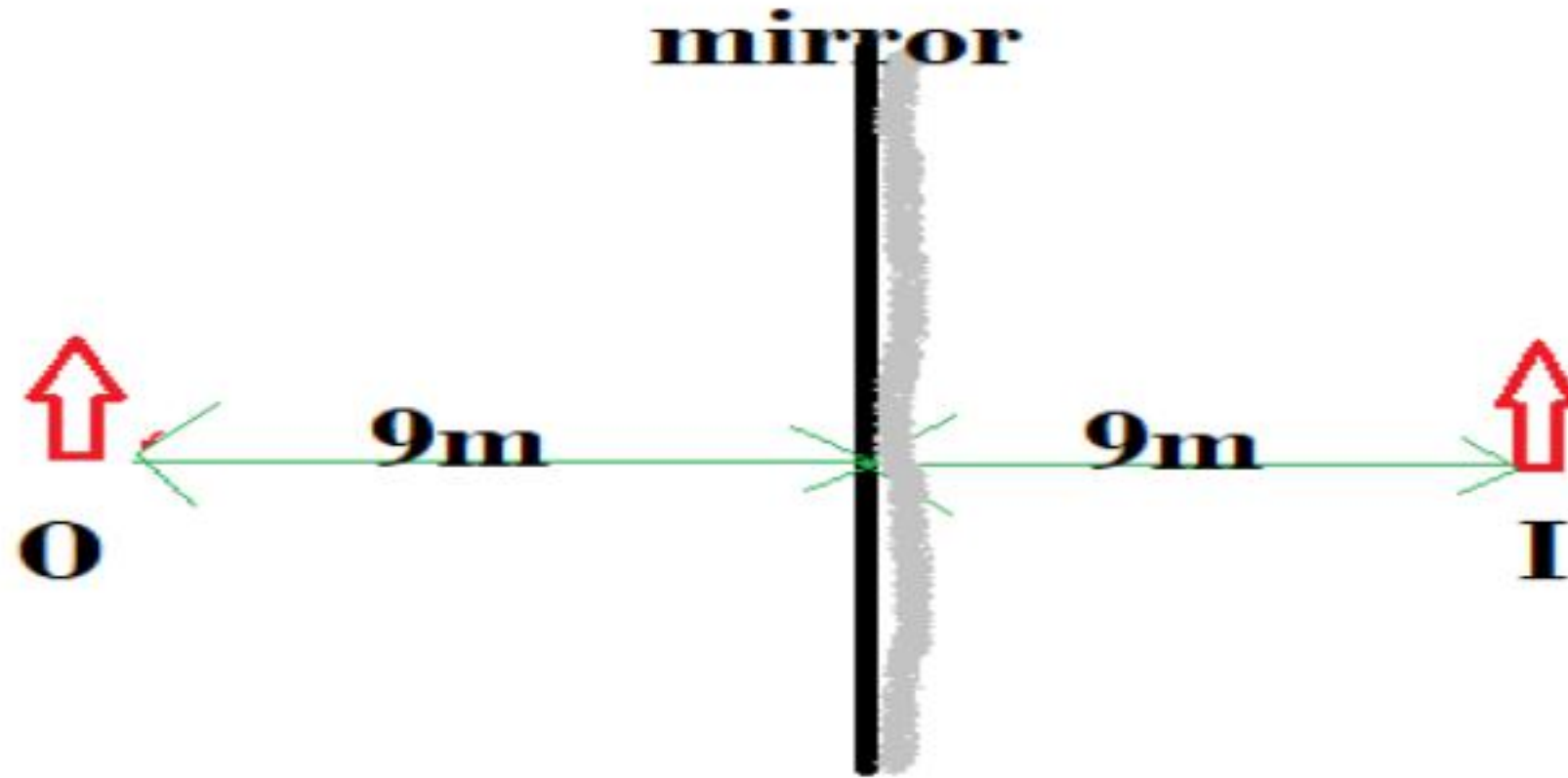
Both hands
point this way.

Right hand

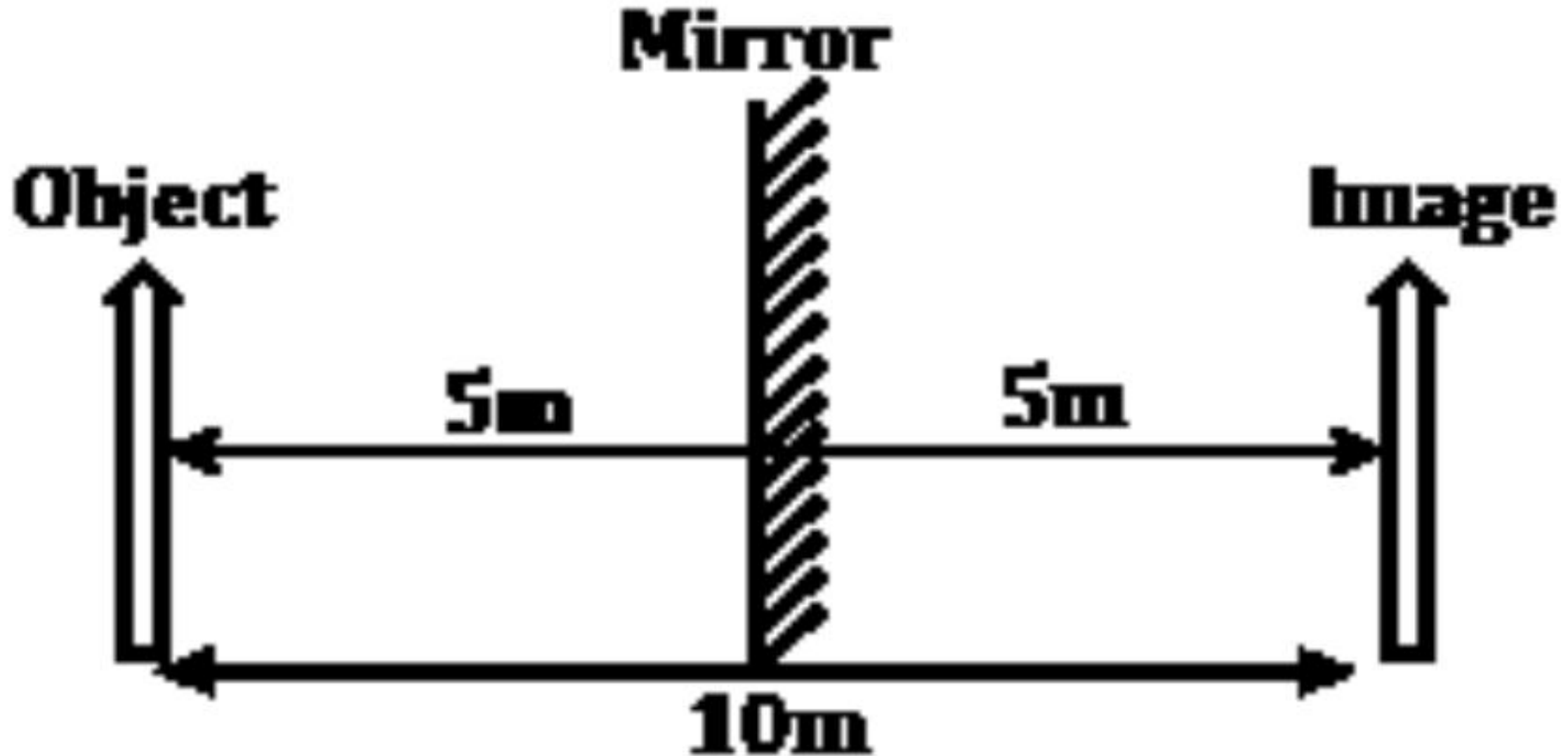
Left hand
of image



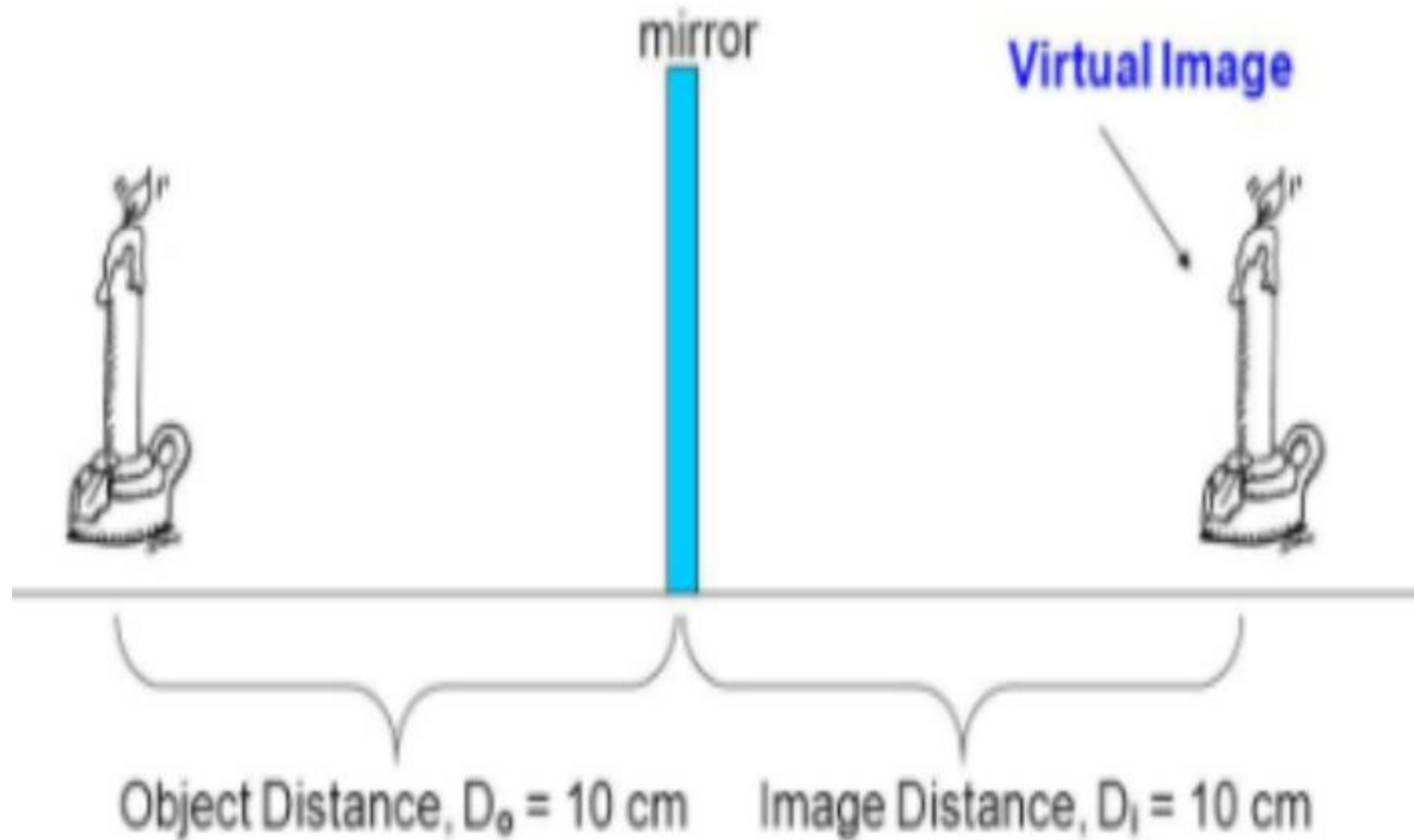
The image distance is equal to the object distance from the mirror



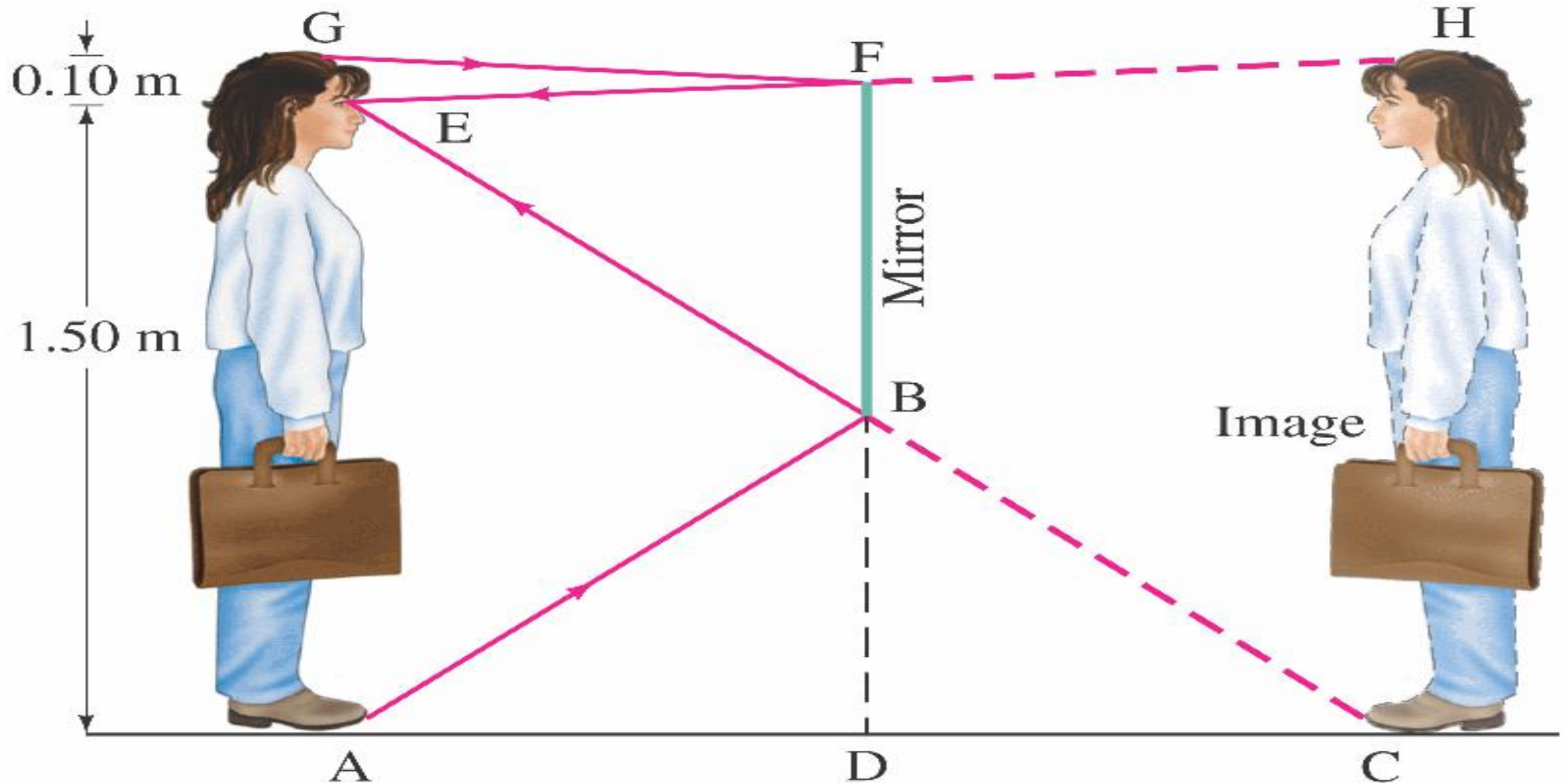
**The image distance is equal to the object distance
from the mirror**

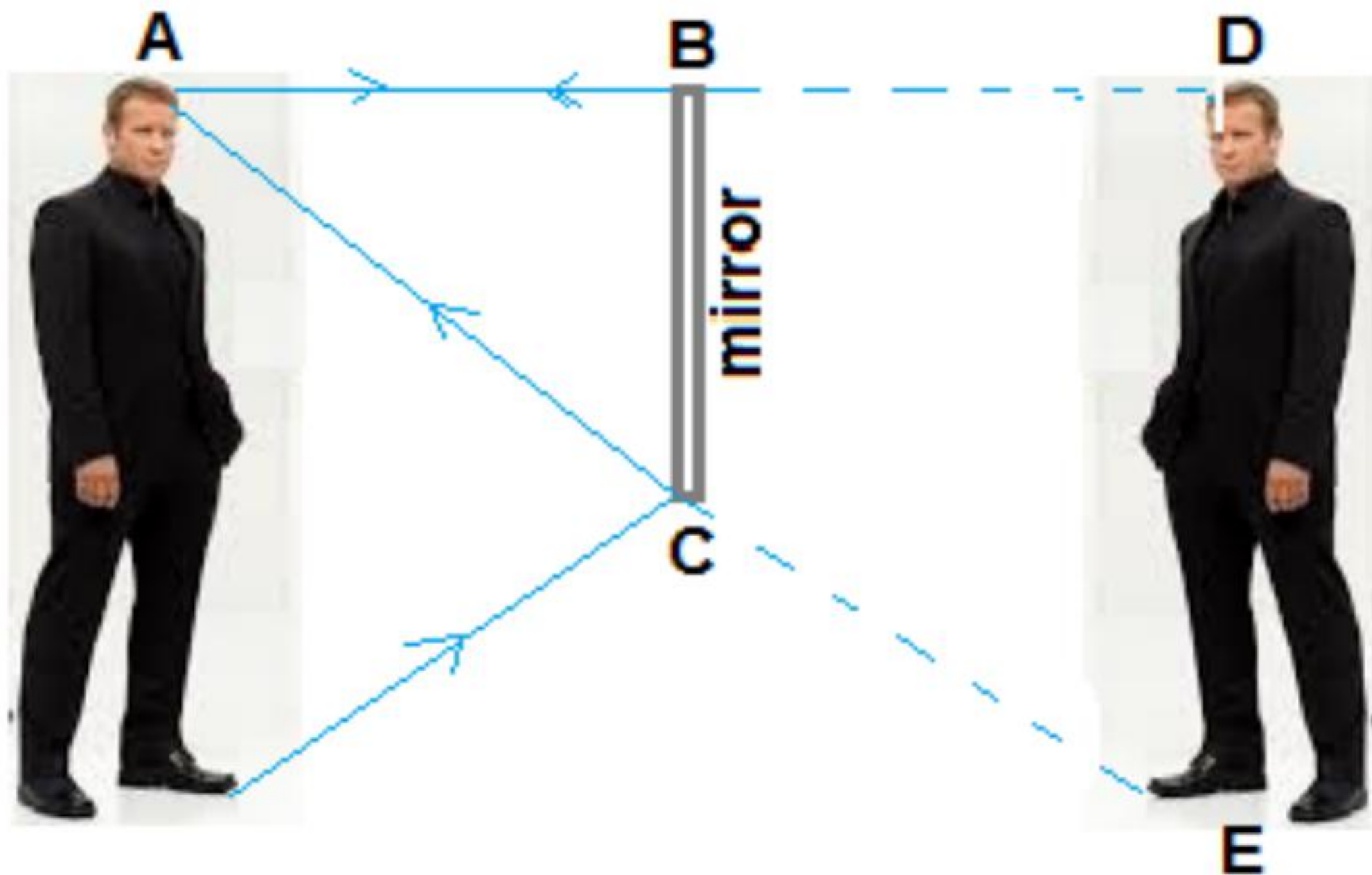


The image distance is equal to the object distance from the mirror



The image is of the same size as the object





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