



ASSESSMENT QUESTIONS:

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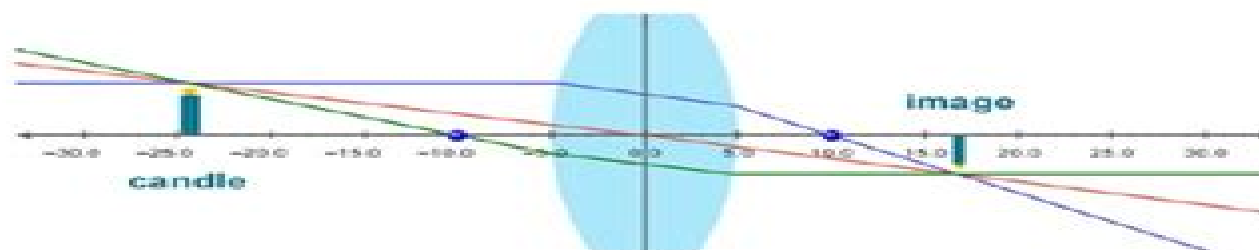
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Questions & Answers

1. What are two ways you could increase the magnification (increase the size of the image) in the situation shown below?



- A. Move the candle to the right, or the focal point to the left.
- B. Move the candle to the right, or the focal point to the right.
- C. Move the candle to the left, or the focal point to the left.
- D. Move the candle to the left, or the focal point to the right.

Correct Answer: A. Move the candle to the right, or the focal point to the left.

Explanation: For a convex lens, the closer an object is to the focal point, the larger its image is (and therefore the greater the magnification is). The two ways you could make the candle be closer to the focal point are to move the candle to the right, or the focal point to the left.

You answered this question correctly!

2. A large convex lens stands on the floor. The lens is 180 cm tall, so the principal axis is 90 cm above the floor. A student holds a flashlight 120 cm off the ground, shining straight ahead (parallel to the floor) and passing through the lens. The light is bent and intersects the principal axis 60 cm behind the lens. Then the student moves the flashlight 30 cm higher (now 150 cm off the ground), also shining straight ahead through the lens. How far away from the lens will the light intersect the principal axis now?

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density of cs 7 85 g cm³ the volume of water required for hydro testing is estimated as $\pi \times \text{pipe id in meter}^2 \times \text{length of pipe}$

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