

63. (a) Virtual, since the image is formed by plane mirrors.
- (b) Same. One can easily verify this by locating, for example, the images of two points, one at the head of the penguin and the other at its feet.
- (c) Same, since the image formed by any plane mirror retains the original shape and size of an object.
- (d) The image of the penguin formed by the top mirror is located a distance  $D$  above the top mirror, or  $L + D$  above the bottom one. Therefore, the final image of the penguin, formed by the bottom mirror, is a distance  $L + D$  from the bottom mirror.