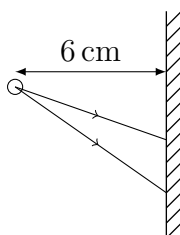


# Reflexion II

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1. The image in a plane mirror is a virtual image. Explain what is meant by the word virtual.
2. An object is placed 6 cm from a plane mirror, as shown below



COPY THE DIAGRAM IN FULL SIZE, and carefully locate the image by reflecting the two rays.

3. Where would you see the sign below, and why is it written that way?

**AMBULANCE**

4. A boy is 155 cm tall, and stands 5 m from a mirror.
  - (a) How tall is his image?
  - (b) How far behind the mirror is his image?
  - (c) How far away from him is his image?
  - (d) He approaches the mirror at 1 m/s. How fast does he approach his image?
5. The angle between an incident ray and a plane mirror is 30 degrees.
  - (a) What is the angle of incidence?
  - (b) What is the angle of reflexion?



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