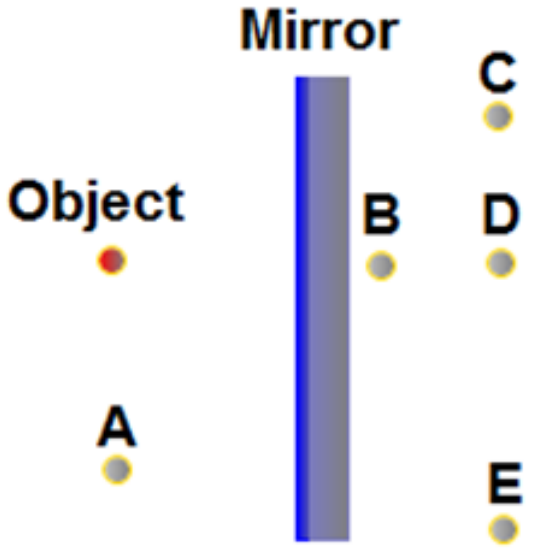
1 When an object is placed in front of a plane mirror the image is

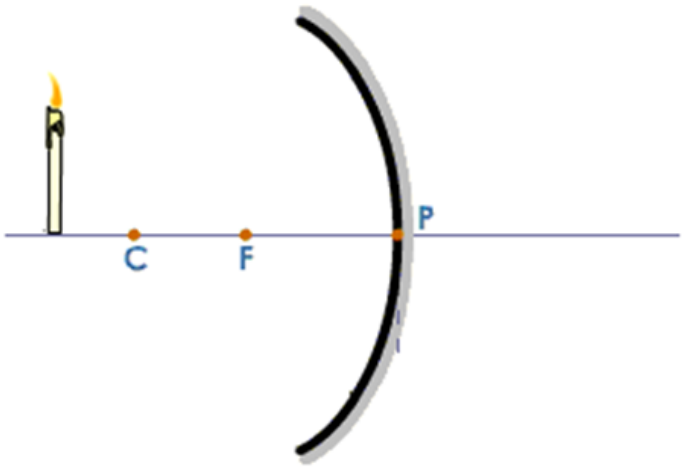
- A Upright, magnified and real
- B Upright, the same size and virtual
- C Inverted, demagnified and real
- D Inverted, magnified and virtual
- E Upright, magnified and virtual

2 A point object is placed in front of a plane mirror. Which is the correct location of the image produced by the mirror?

- ○ A A
- ○ B B
- ○ C C
- ○ D D
- ○ E E

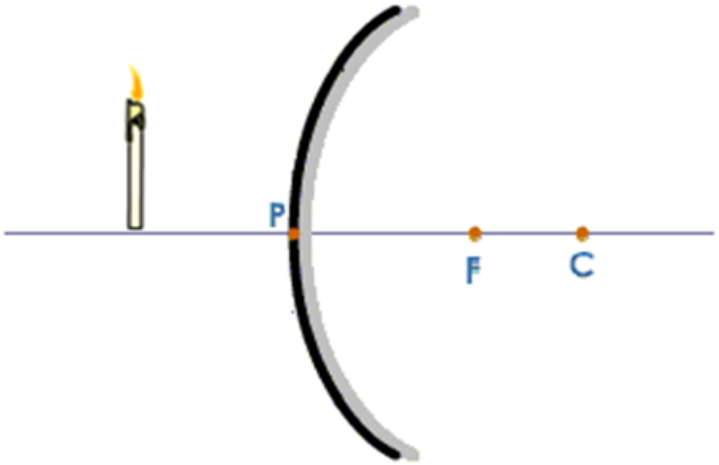


3 A candle is placed in front of a concave mirror. The image produced by the mirror is:

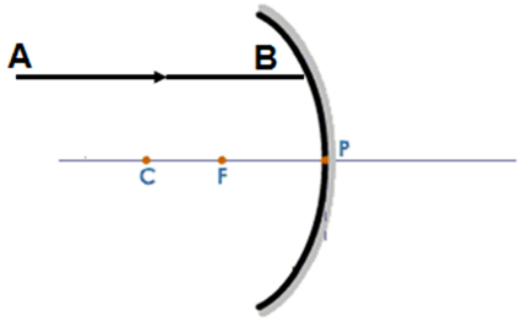


- ○ **A** Real, inverted and magnified
- ○ **B** Real, inverted and demagnified
- ○ **C** Virtual, upright and magnified
- ○ **D** Virtual, upright and demagnified
- ○ **E** Real, upright and magnified

4 A candle is placed in front of a convex mirror. The image produced by the mirror is:

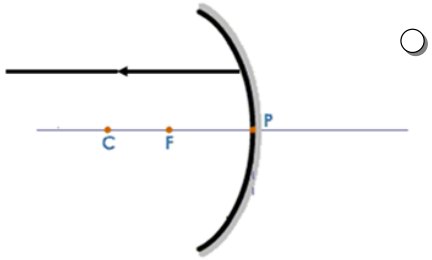


- ○ **A Real, inverted and magnified**
- ○ **B Real, inverted and demagnified**
- ○ **C Virtual, upright and magnifed**
- ○ **D Virtual, upright and demagnified**

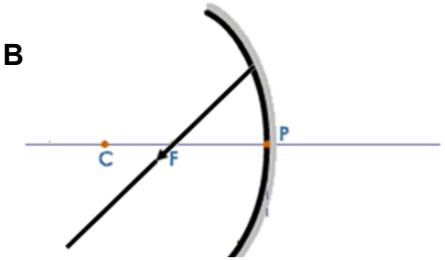


5 A very narrow light ray AB striked the surface of a concave mirror, as shown on the diagram. Which of the following diagrams represents the reflected ray?

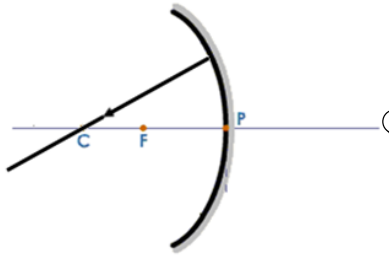
○ **A**



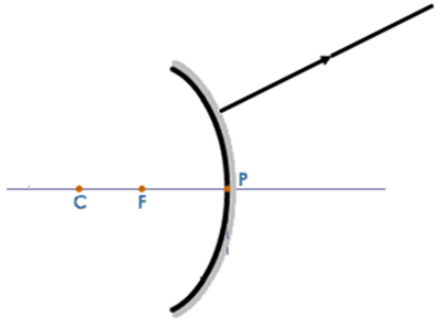
○ **B**



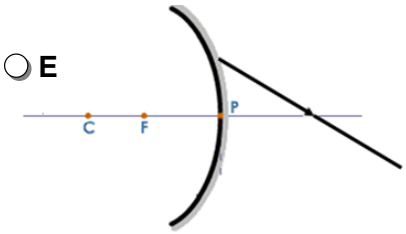
○ **C**

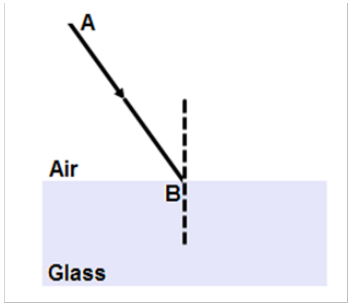


○ **D**



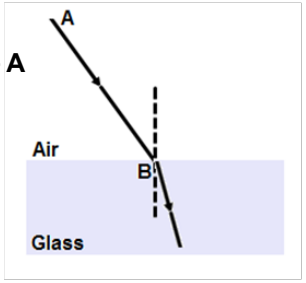
○ **E**



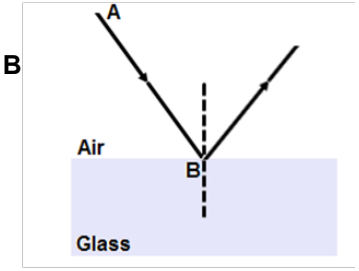


6 A light ray AB is incident obliquely on the surface of a glass block. Which of the following diagrams represents the refracted ray?

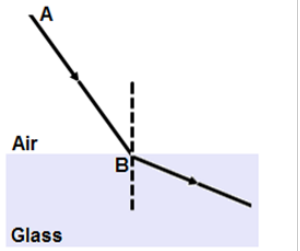
○ **A**



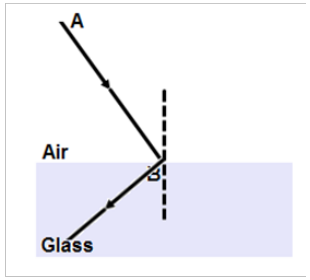
○ **B**



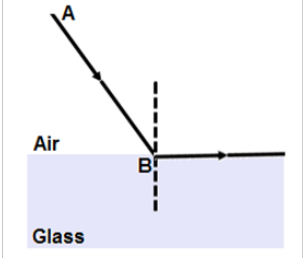
○ **C**

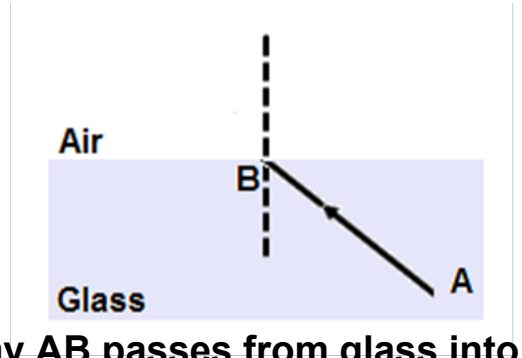


○ **D**



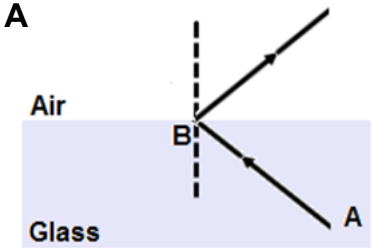
○ **E**



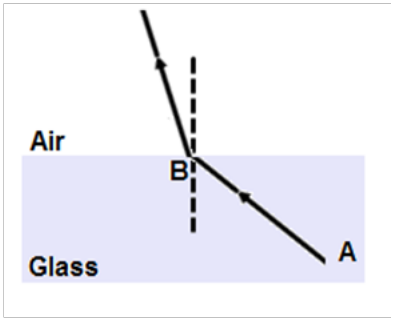


7 A light ray AB passes from glass into air at the critical angle. Which of the following diagrams represents the refracted ray?

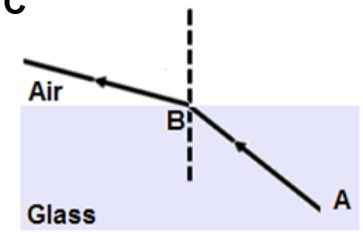
A



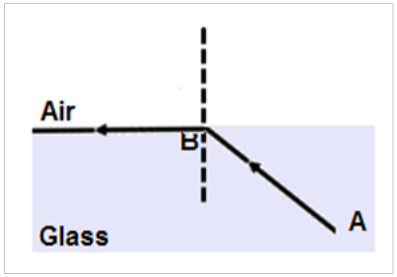
B



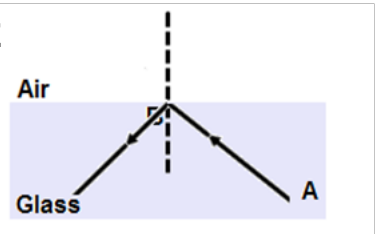
C



D

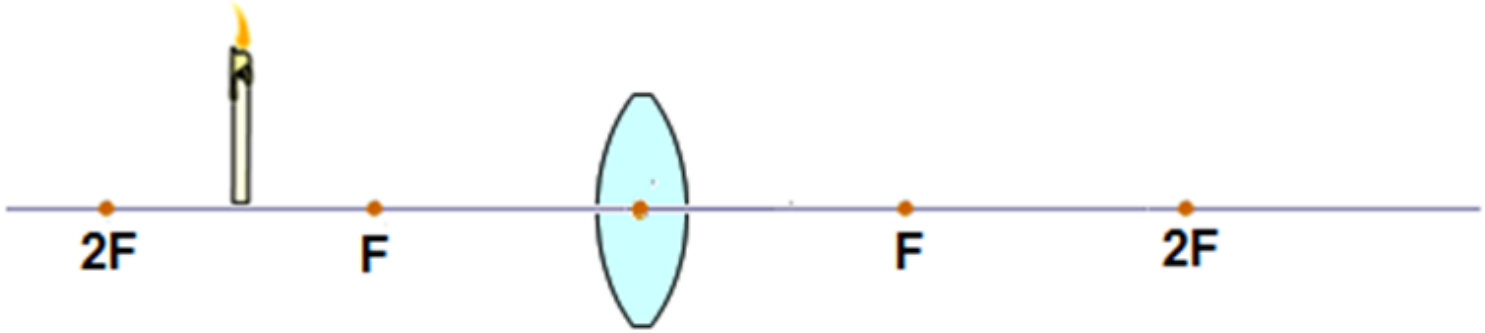


E



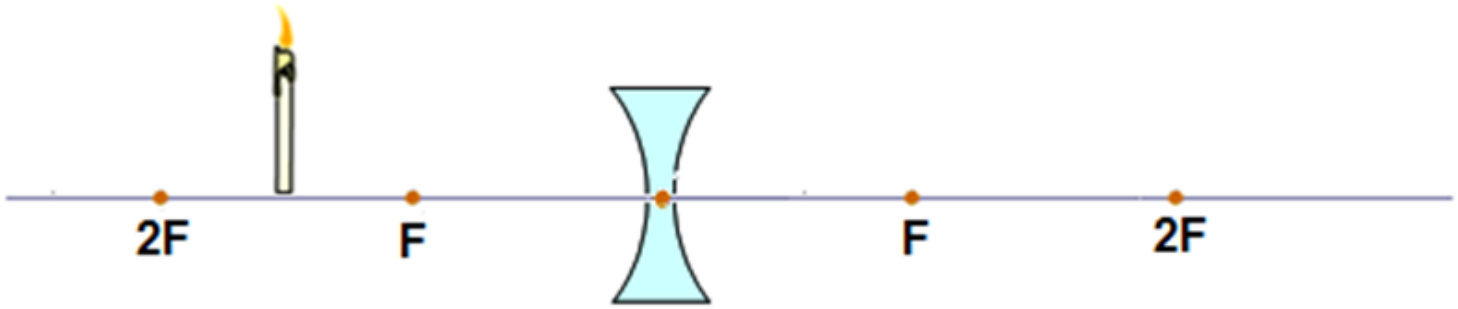
8 Which of the lens or lenses is or are the converging lens?

- A I and V
- B II, III and IV
- C II and III
- D III and IV
- E IV and V



9 And object is placed in front of a converging lens at a distance between F and 2F. The image produced by the lens is:

- ○ **A Real, inverted and demagnified**
- ○ **B Real, inverted and magnified**
- ○ **C Virtual, upright and magnified**
- ○ **D Virtual, upright and demagnified**
- ○ **E Virtual, inverted and magnified**



10 An object is placed in front of a diverging lens at a distance between F and 2F. The image produced by the lens is:

- ○ **A Real, inverted and demagnified**
- ○ **B Real, inverted and magnified**
- ○ **C Virtual, upright and magnified**
- ○ **D Virtual, upright and demagnified**
- ○ **E Virtual, inverted and magnified**