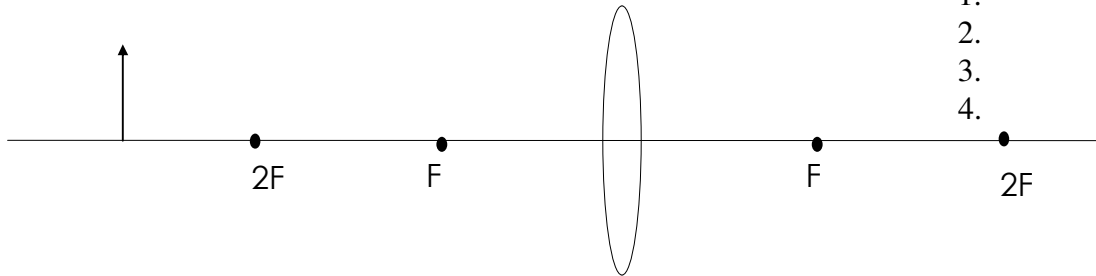


PHYSICS I
REFRACTION AND LENSES
Lens Diagrams

Located identify, by constructing ray diagrams, the image location and characteristics listed to the right of each diagram below. Be sure to include image location (inside F, between 2F and F, at 2F, or outside 2F), size (smaller, larger, same), type (real or virtual) and orientation (upright or inverted)

1. Object beyond 2F

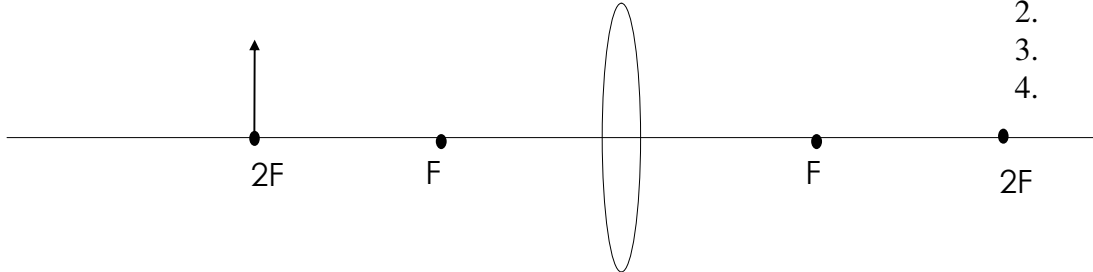
Image description:



- 1.
- 2.
- 3.
- 4.

2. Object at 2F

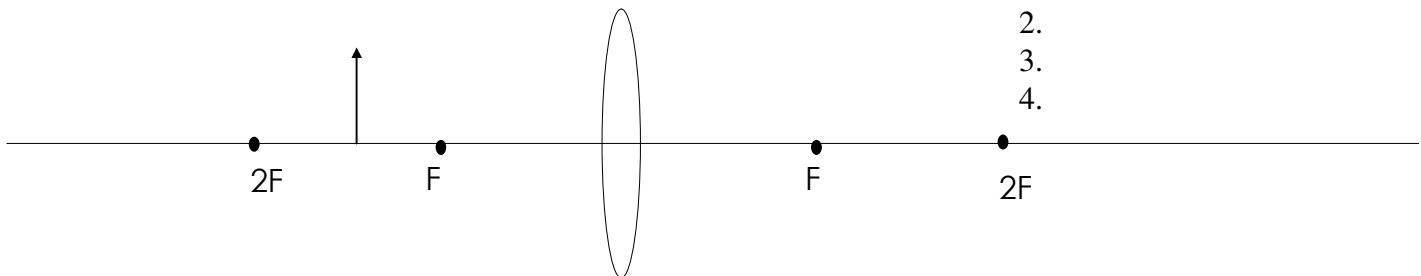
Image description:



- 1.
- 2.
- 3.
- 4.

3. Object between F and 2F

Image description:



- 1.
- 2.
- 3.
- 4.

4. Object at F

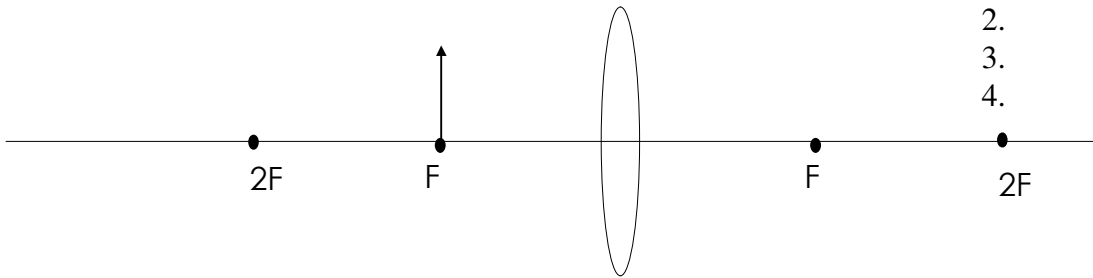


Image description:

- 1.
- 2.
- 3.
- 4.

5. Object between F and the lens

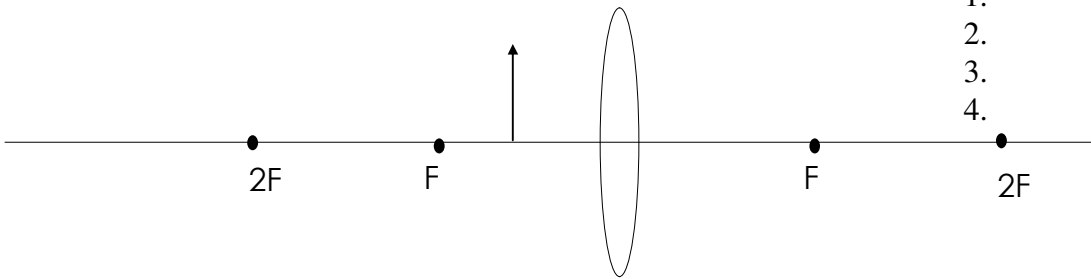


Image description:

- 1.
- 2.
- 3.
- 4.

6. Image formed in a concave lens (for any location)

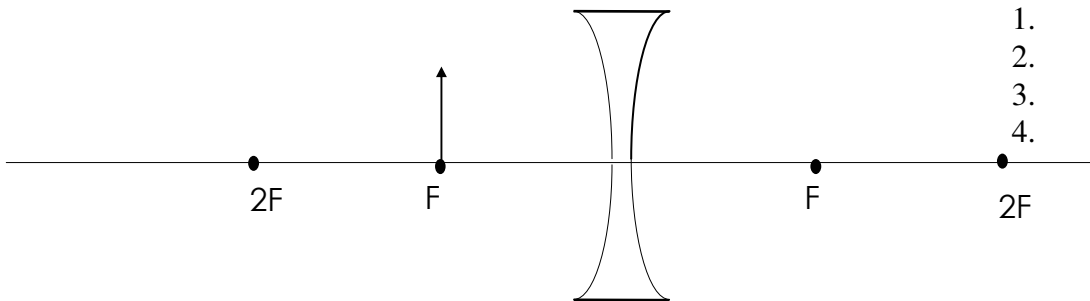


Image description:

- 1.
- 2.
- 3.
- 4.