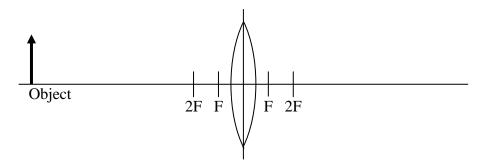
Lens Ray Diagram

<u>Directions:</u> Use the rules from the *Optical Ray Diagram Rules* information sheet, follow along with your teacher to draw the ray diagrams for the various cases of optical references.

Convex Lens Has multiple cases.

Case I: Object is far beyond 2F (at ∞)



Case I: Image Appears:

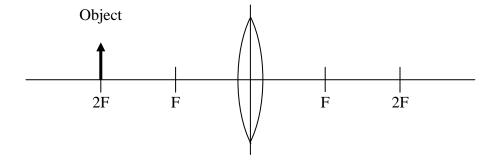
1. Location:

2. Orientation:

3. Size:_____

4. Image Type:_____

Case II: Object is at 2F



Case II: Image Appears:

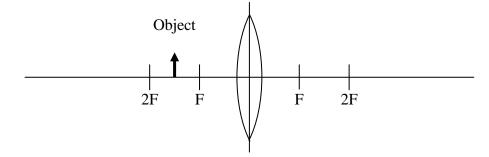
1. Location:

2. Orientation:

3. Size:_____

4. Image Type:

Case III: Object is between 2F and F



Case III: Image Appears:

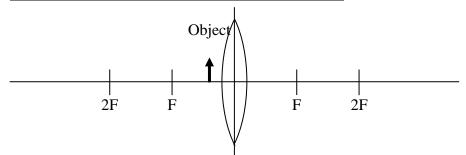
1. Location:_____

2. Orientation:

3. Size:_____

4. Image Type:_____

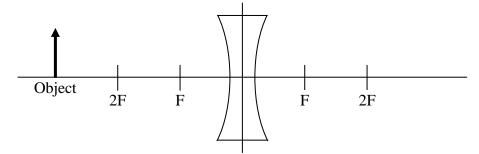
Case IV: Object is inside F (between F and Lens)



Case IV: Image Appears:

- 1. Location:_____
- 2. Orientation:
- 3. Size:_____
- 4. Image Type:_____

Concave Lens Has only ONE case.



Convex Mirror's Image Appears:

- 1. Location:
- 2. Orientation:
- 3. Size:_____
- 4. Image Type:_____