

Name: _____

Period: _____

Date: _____

Converging Ray Diagrams Worksheet

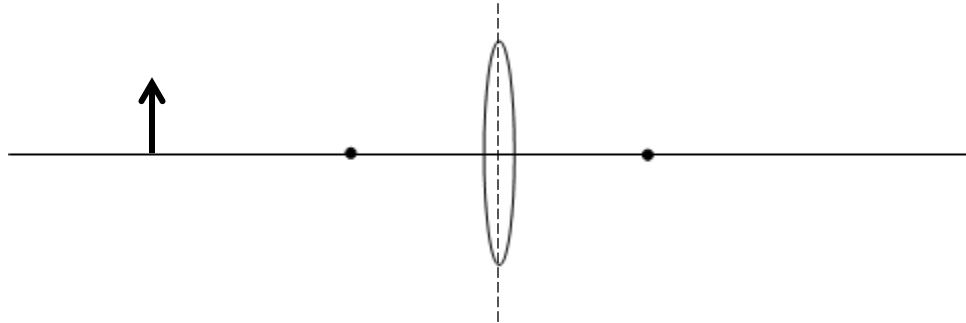
The three rays useful for constructing ray diagrams are:

1. *A ray parallel to the principal axis that passes through the focal point on the opposite side.*
2. *A ray that passes through the center of the lens that is undeflected.*
3. *A ray that passes through the focal point in front of the lens that emerges parallel to the principal axis after refracted by the lens.*

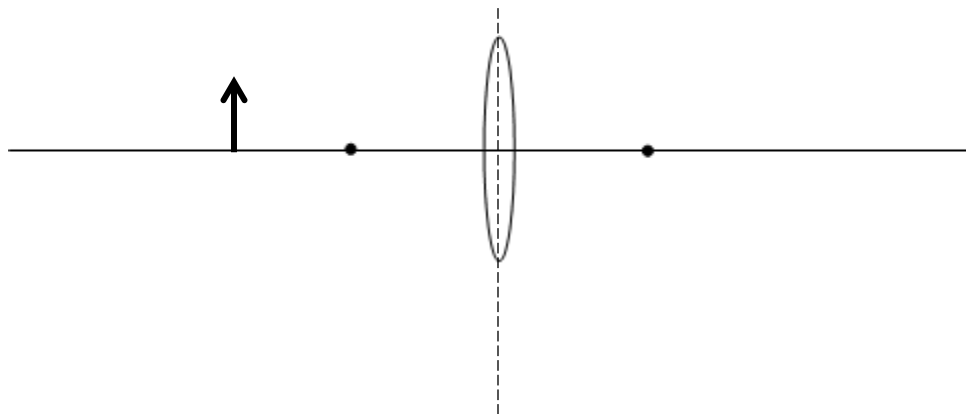
Complete the following Ray Diagrams by drawing the three “useful rays” and drawing the location of the image.

When you are finished, describe what type of image is created (real or virtual; normal or inverted; larger, smaller, or same size)

1.



2.

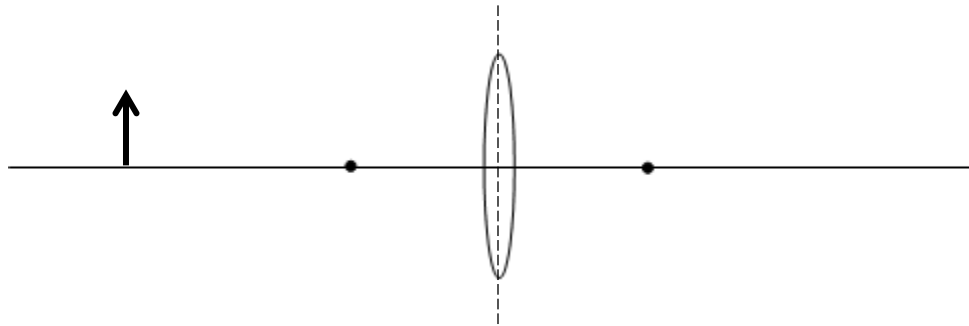


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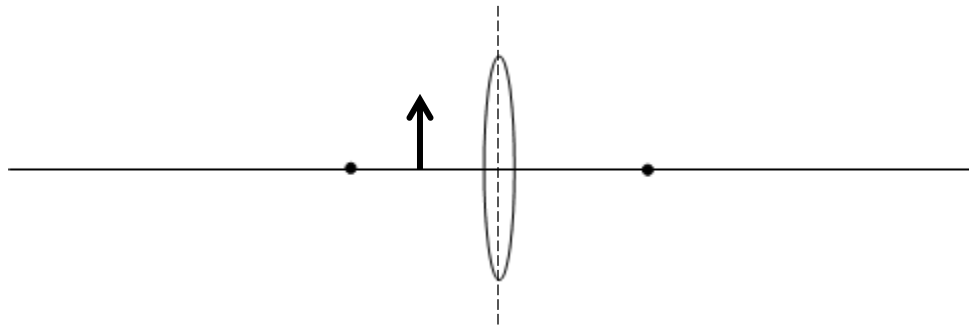
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3.



4.



5.

