Ray Diagrams for Diverging Lenses

Read from Lesson 5 of the Refraction and Lenses chapter at The Physics Classroom:

http://www.physicsclassroom.com/Class/refrn/u14l5ea.html http://www.physicsclassroom.com/Class/refrn/u14l5eb.html

MOP Connection: Refraction and Lenses: sublevels 10 and 11

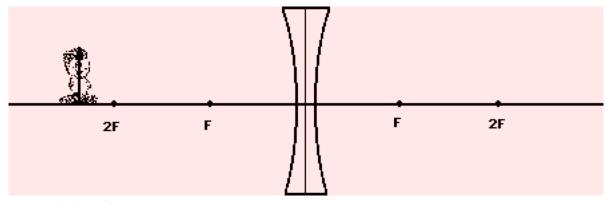
For the following lenses and corresponding object positions, construct ray diagrams. Then describe the Location of the image, **O**rientation (upright or inverted) of the image, the relative **S**ize of the image (larger or smaller than object), and the **T**ype of image (real or virtual).



NOTE: 1) All light rays have arrowheads that indicate the direction of travel of the ray.

- 2) Always draw in the image once located (an arrow is a good representation).
- 3) Exactness counts. Use a straight-edge and be accurate.

Case 1: If the object is located far away from the lens:



Description of Image:

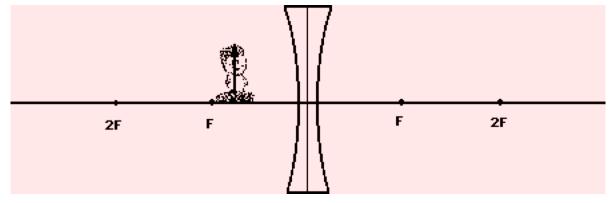
Location:

O: Upright or Inverted

S: Magnified or Reduced

T: Real or Virtual

Case 2: If the object is located nearby the lens:



Description of Image:

Location:

O: Upright or Inverted

S: Magnified or Reduced

T: Real or Virtual