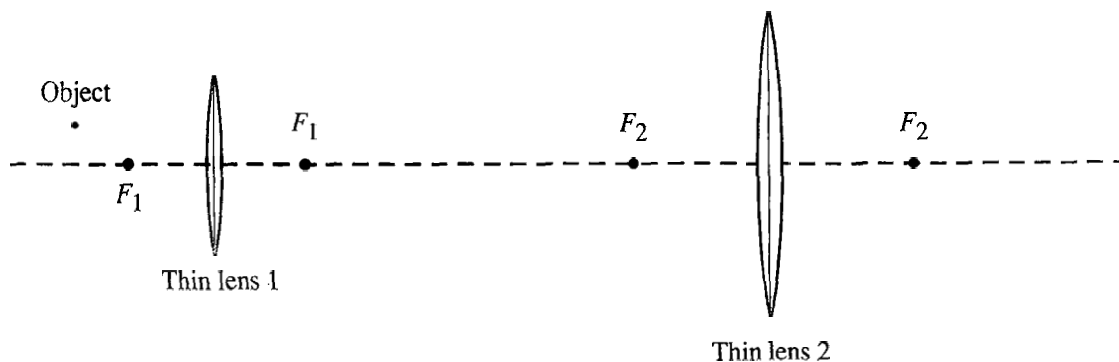


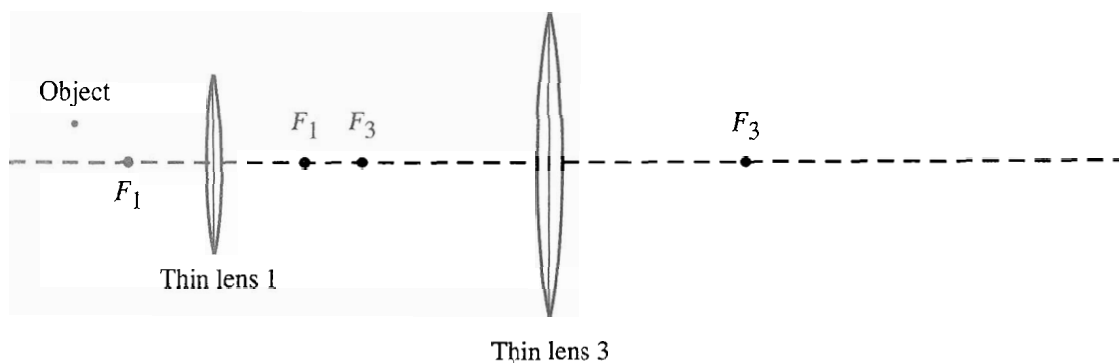
2. Two thin convex lenses (1 and 2) and a small object are arranged as shown.
- Use the three principal rays to determine the location of the image of the object produced by lens 1.



- Treat the image produced by lens 1 as an object for lens 2. Use the three principal rays to determine the location of the image of this object produced by lens 2.

Is this image produced by the pair of lenses *real* or *virtual*? Explain your reasoning.

- Repeat parts a and b for the case in which lens 2 is replaced with a different lens (lens 3), as shown below.



Is the image produced by the pair of lenses *real* or *virtual*? Explain your reasoning.