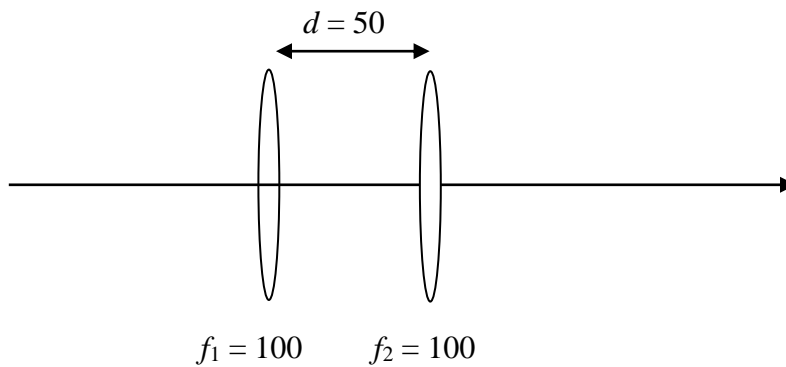


Two Lens System

Consider the following two-thin-lens system.



- (a) Write the ABCD matrix for the system. Sketch the location of the input and output planes you assumed for your system.
- (b) What is the focal length of the system?
- (c) Where are the first and second principle planes of the system? Sketch them on the figure above.
- (d) Given an object located $s_1 = 100$ mm in front of the first lens, where is the image located, and what is the magnification?