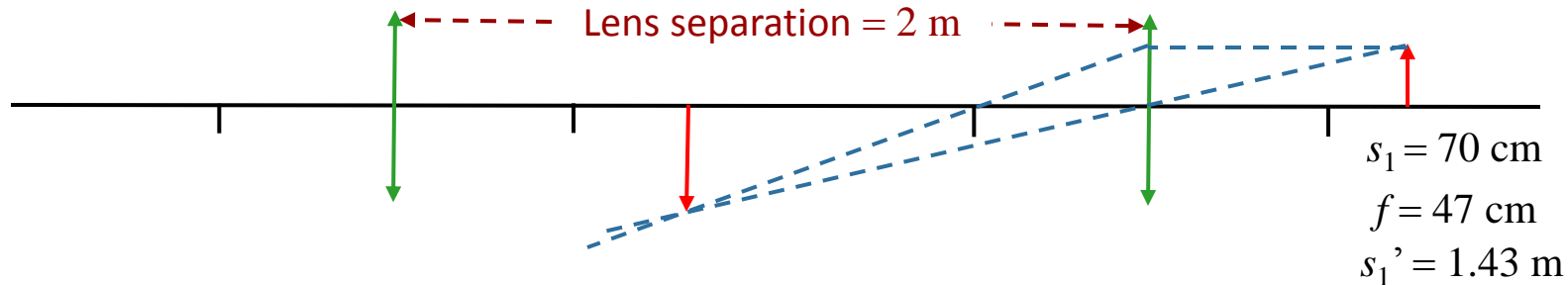


Multiple Lenses Exercises

Two converging lenses are set up as shown. The focal length of each lens is 47 cm . The object is a light bulb located 70 cm in front of the first lens.



What is the object distance s_2 for lens 2?

- A) $s_2 = -1.43\text{ m}$ B) $s_2 = +1.43\text{ m}$ C) $s_2 = -0.57\text{ m}$ **D) $s_2 = +0.57\text{ m}$** E) $s_2 = +2.7\text{ m}$

THE OBJECT FOR THE SECOND LENS IS THE IMAGE OF THE FIRST LENS

~~$s_2 = -0.57$~~

OR

$s_2 = +0.57$

Image of first lens is a **REAL** object for the second lens