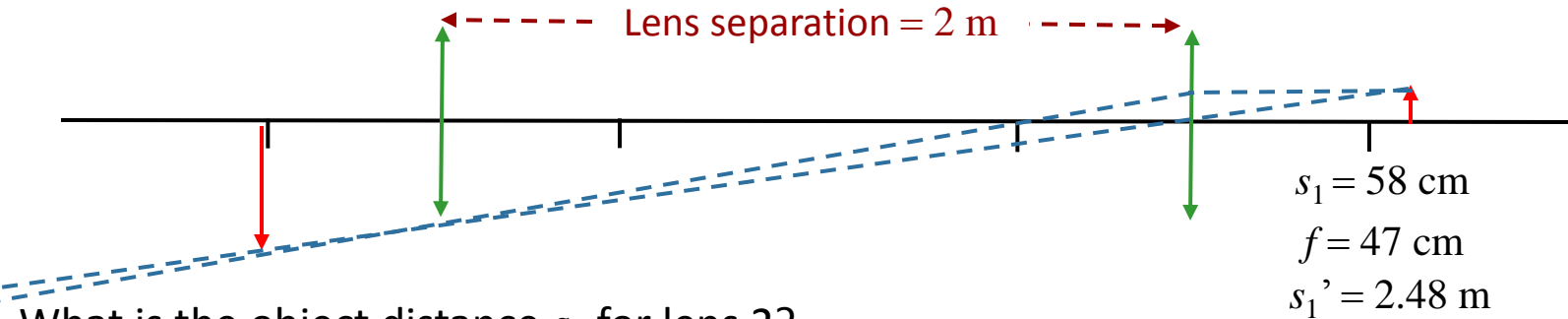


# Multiple Lenses Exercises



Suppose we now decrease the initial object distance to 58 cm. Applying the lens equation, we find  $s_1' = 2.48\text{m}$



What is the object distance  $s_2$  for lens 2?

**A)  $s_2 = -0.48\text{ m}$**

B)  $s_2 = +0.48\text{ m}$

C)  $s_2 = -2.48\text{ m}$

D)  $s_2 = +2.48\text{ m}$

E)  $s_2 = +2.58\text{ m}$

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



$s_2 = -0.48$

OR

~~$s_2 = +0.48$~~

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