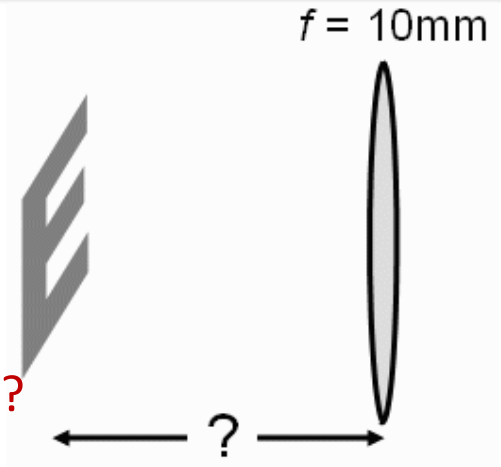
A magnifying glass is used to read the fine print on a document. The focal length of the lens is 10mm.

At what distance from the lens must the document be placed in order to obtain an image magnified by a factor of 5 that is not inverted?



How does the object distance compare to the focal length?

A) $|s| < |f|$ B) $|s| = |f|$ C) $|s| > |f|$

Lens equation → $\frac{1}{S'} = \frac{1}{f} - \frac{1}{S}$

→ $S' = \frac{fS}{S-f}$

Virtual Image ⇒ $s' < 0$

Real object ⇒ $s > 0$

Converging lens ⇒ $f > 0$

$S - f < 0$