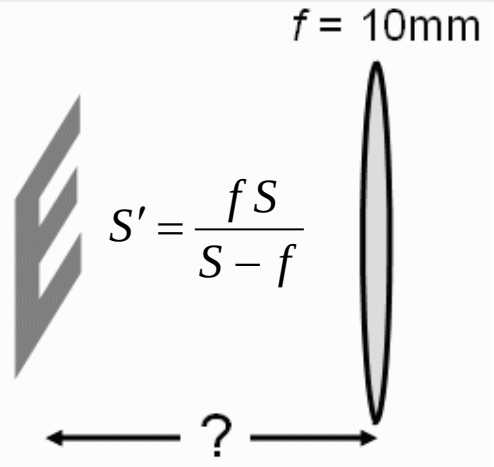
A magnifying glass is used to read the fine print on a document. The focal length of the lens is 10mm.

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?



What is the magnification M in terms of s and f ?

A) $M = \frac{s-f}{f}$ B) $M = \frac{f-s}{f}$ C) $M = \frac{-f}{s-f}$ D) $M = \frac{f}{s-f}$

Lens equation:

$$\frac{1}{S'} = \frac{1}{f} - \frac{1}{S}$$

$$S' = \frac{fS}{S-f}$$

Magnification equation:

$$M = -\frac{s'}{s}$$

$$M = \frac{-f}{s-f}$$