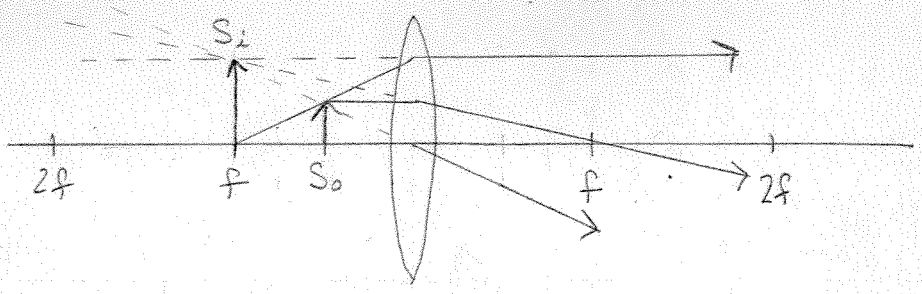
P # 29 c

Ch 23 - pg 743

c) $f = 20\,cm$
$S_o = 10\,cm$



$$\frac{1}{S_o} + \frac{1}{S_i} = \frac{1}{f}$$

$$\frac{1}{10} + \frac{1}{S_i} = \frac{1}{20}$$

$$S_i^{-1} = 20^{-1} - 10^{-1}$$

$S_i = -20\,cm$

$$M = -\frac{S_i}{S_o}$$

$$= \frac{-(-20\,cm)}{10\,cm}$$

$M = 2$

Upright, Virtual