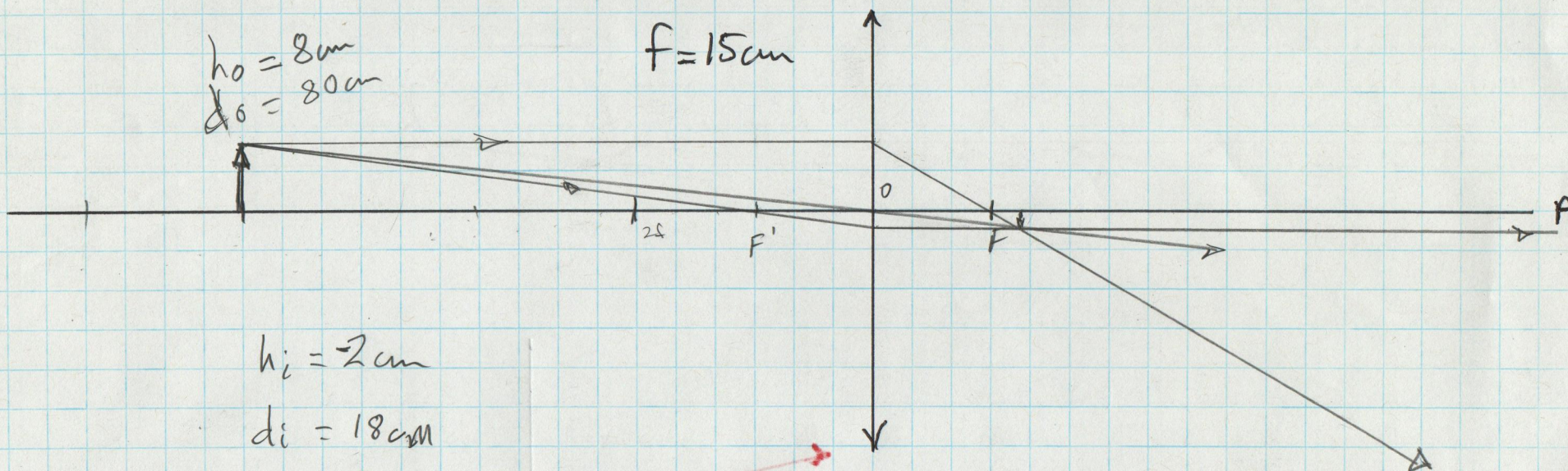
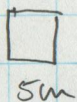


ARHS Physics
June 19, 2020

①



$$M = \frac{h_i}{h_o} = -\frac{d_i}{d_o}$$

$$\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$$

$$d_i = \left(\frac{1}{f} - \frac{1}{d_o} \right)^{-1} = \left(\frac{1}{15\text{cm}} - \frac{1}{80\text{cm}} \right)^{-1}$$

$$d_i = 18.4615\text{cm}$$

$$d_i = 18.5\text{cm}$$

$$h_i = \left(-\frac{d_i}{d_o} \right) h_o = -\frac{18.4615\text{cm}}{80\text{cm}} (8\text{cm}) =$$

$$h_i = -1.8462\text{cm}$$

$$h_i = -1.85\text{cm}$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$n_1 = 1.000$
Air

Glass
 $n_2 = 1.50$

$n_2(\lambda)$

