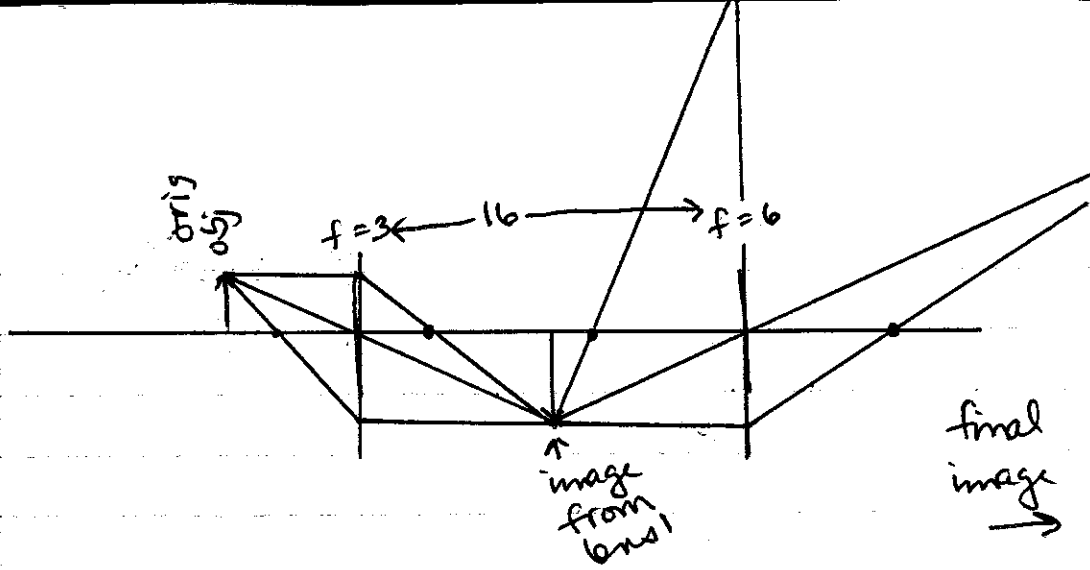


⊖



$$\frac{1}{p_1} + \frac{1}{q_1} = \frac{1}{f_1} \quad \frac{1}{5} + \frac{1}{q_1} = \frac{1}{3} \quad q_1 = 7.5$$

$$p_2 = 16 - q_1 = 8.5$$

$$\frac{1}{p_2} + \frac{1}{q_2} = \frac{1}{f_2} \quad \frac{1}{8.5} + \frac{1}{q_2} = \frac{1}{6} \quad q_2 = 20.4 \text{ cm}$$

to right of lens 2

c. $\text{Mag} = \left| \frac{q_1 q_2}{p_1 p_2} \right| = \frac{(7.5)(20.4)}{(5)(8.5)} = 3.6 \text{ times}$

d. final image is upright (and real)

