

Lab 3

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Mirror A

Measured Values

$$p = 4.51cm$$

$$f = 9.89cm$$

$$h_0 = 4.10cm$$

Equations and Calculations

$$\frac{1}{p} + \frac{1}{q} = \frac{1}{f}$$

$$q = \frac{1}{\frac{1}{f} - \frac{1}{p}} = -8.29cm$$

$$q' = \frac{pf}{p - f} = -8.29cm$$

$$M = -\frac{q}{p} = 1.89$$