

79. From  $y = m\lambda D/a$  we get

$$\Delta y = \Delta \left( \frac{m\lambda D}{a} \right) = \frac{\lambda D}{a} \Delta m = \frac{(632.8 \text{ nm})(2.60)}{1.37 \text{ mm}} [10 - (-10)] = 24.0 \text{ mm} .$$