

例題 1 解答例

(1) $\Delta x = \frac{l\lambda}{d}$ を使う

$$d = \frac{l\lambda}{\Delta x} = \frac{1.0 \cdot 5.00 \times 10^{-7}}{2.0 \times 10^{-2}} = \frac{5}{2} \times 10^{-5} = 2.5 \times 10^{-5} \text{ m}$$

(2) $\Delta x = \frac{l\lambda}{d}$ を使う

$$\Delta x = \frac{l\lambda}{d} = \frac{1.0 \cdot 6.50 \times 10^{-7}}{2.5 \times 10^{-5}} = \frac{6.5}{2.5} \times 10^{-2} = 2.6 \times 10^{-2} \text{ m} = 2.6 \text{ cm}$$