

4.

$$\frac{1}{\lambda} = \left[1.097 \times 10^{-2} \text{ nm}^{-1} \right] \left(\frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$$

$$\frac{1}{\lambda} = \left[1.097 \times 10^{-2} \text{ nm}^{-1} \right] \left(\frac{1}{5^2} - \frac{1}{2^2} \right)$$

$$\lambda \approx 434 \text{ nm}$$