

7. Using the result of problem 3,

$$E = \frac{hc}{\lambda} = \frac{1240 \text{ eV} \cdot \text{nm}}{21 \times 10^7 \text{ nm}} = 5.9 \times 10^{-6} \text{ eV} = 5.9 \mu\text{eV} .$$