

P #L

Ch 28

$$\lambda_1 = 310 \text{ nm}$$

$$\lambda_2 = 280 \text{ nm}$$

$$hc = 1240 \text{ eV} \cdot \text{nm}$$

$$a) \quad E = \frac{hc}{\lambda} = \frac{1240 \text{ eV} \cdot \text{nm}}{310 \text{ nm}}$$

$$E_1 = 4.0 \text{ eV}$$

$$b) \quad E = \frac{hc}{\lambda} = \frac{1240 \text{ eV} \cdot \text{nm}}{280 \text{ nm}}$$

$$E_2 = 4.4 \text{ eV}$$