

P # B

Ch 27 - Worksheet

$$f = 3.0 \times 10^{15} \text{ Hz}$$

$$V = 7.0 \text{ V}$$

$$KE_{\text{max}} = 7.0 \text{ eV}$$

(because Volts = 7 V for an e^-)

$$K_{\text{max}} = h \cdot f - \phi$$

$$7.0 \text{ eV} = (4.14 \times 10^{-15} \text{ eV} \cdot \text{s}) (3 \times 10^{15} \text{ Hz}) - \phi$$

$$\phi = 5.42 \text{ eV}$$