

EVALUATING ENERGY OF A PHOTON

1. What energy will a photon have if it is traveling at a frequency of 1.2×10^{17} Hz?
 - A. 7.9×10^{-17} J
 - B. 8.2×10^{-17} J
2. What energy will a photon have if it is traveling at a frequency of 6.3×10^{-19} Hz?
 - A. 6.7×10^{-23} J
 - B. 4.1×10^{-14} J
3. What frequency will a photon have if it has 2.19×10^{-15} J of energy?
 - A. 9.4×10^{-15} Hz
 - B. 3.3×10^{18} Hz
4. If a photon has a wavelength of 0.04 cm, how much energy does it have?
 - A. 4.9×10^{-22} J
 - B. 4.9×10^{-24} J