

Part 2 Review Q

4. Calculate the energy of a photon of this light wave in joules. [Show all calculations, including the equation and substitution with units.]

Base your answers to questions 5 through 7 on the information below.

A hydrogen atom emits a 2.55-electronvolt photon as its electron changes from one energy level to another.

5. Express the energy of the emitted photon in joules.
[Show all calculations including equations and substitutions with appropriate units.]
6. Using the Reference Tables for Physics, determine the energy level change for the electron.
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7. Determine the frequency of the emitted photon.

[Show all calculations, including the equation and the substitution with units.]
