Ch 29 HW Quiz #1A

An electron is in energy level n = 7 in a neutral Hydrogen atom.

- a) What is the shortest wavelength of light that can be emitted by an electron transitioning out of this level?
- b) What is the longest wavelength of light that can be absorbed by an electron transitioning out of this level?
- c) Which has a larger energy, a photon emitted when an electron moves from n = 6 -> 2 or a photon emitted when the electron moves from n = 2 -> 1? Calculate both and compare.