## ACT 2: Optical Transitions in Hydrogen

An electron, initially excited to the n = 3 energy level of the hydrogen atom, falls to the n = 2 level, emitting a photon in the process.

- 1) What is the energy of the emitted photon?
- a) 1.5 eV b) 1.9 eV c) 3.4 eV

- 2) What is the wavelength of the emitted photon?
  - a) 827 nm b) 656 nm c) 365 nm