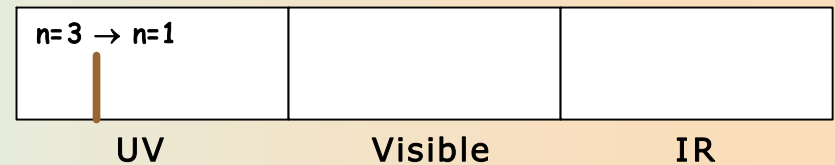
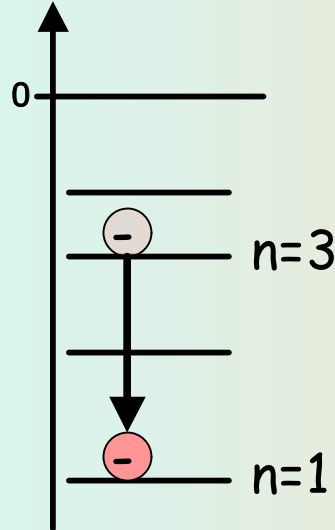
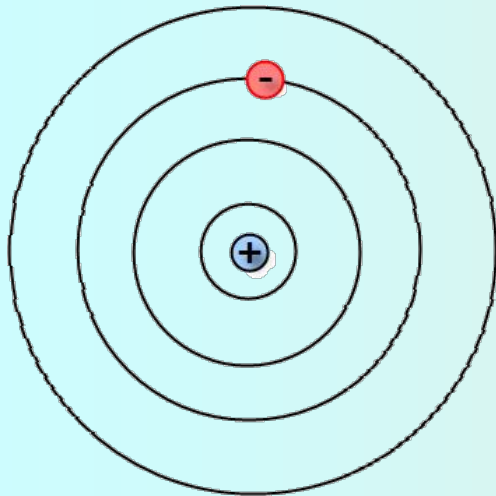


Bohr's atomic theory: answers

When the electron jumps to the ground state:

- a) Does it absorb or emit energy?
- b) Which kind of photon (UV, Visible, IR) is involved in the process?
- c) Draw the process and a line in the line spectrum

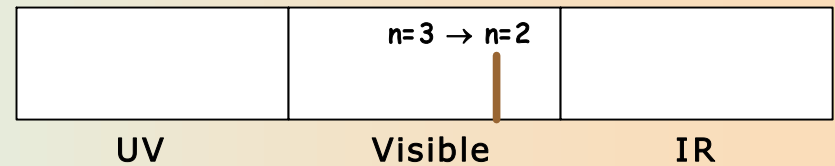
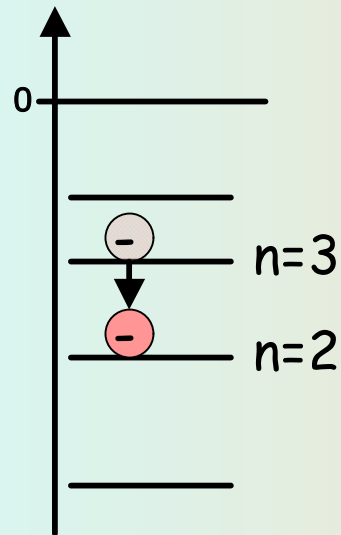
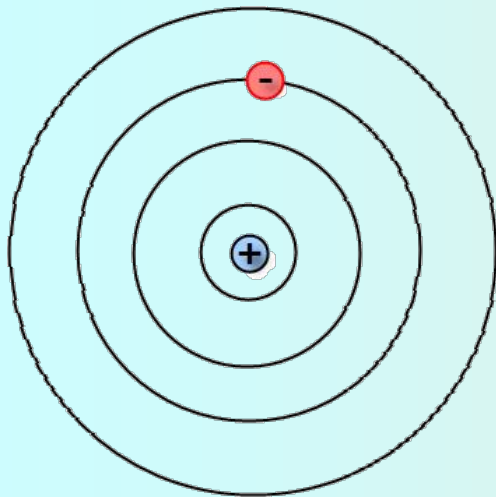
- a) The electron emits energy
- b) When it jumps directly to the ground state the electron emits a UV light



Bohr's atomic theory: answers

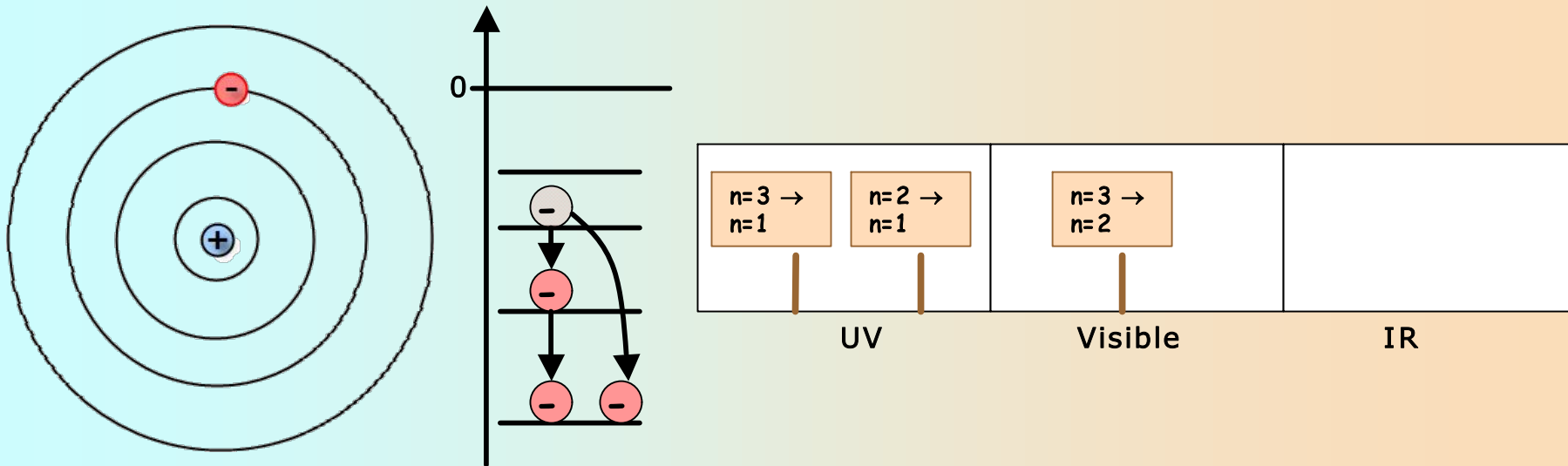
The electron emits a visible photon:

a) Draw the process and a line in the line spectrum



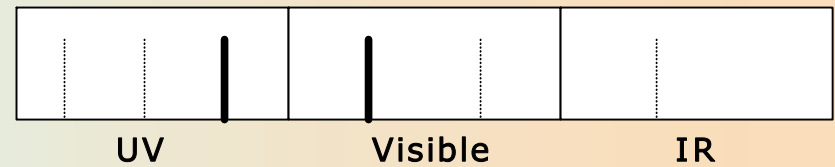
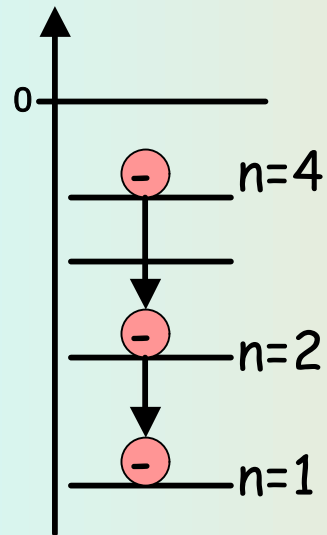
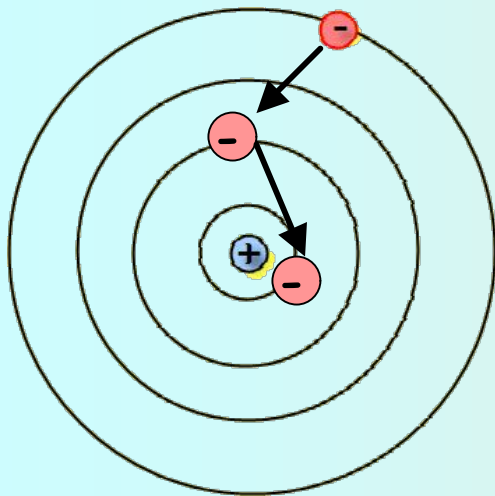
Bohr's atomic theory: answers

Draw all possible jumps from this orbit downwards



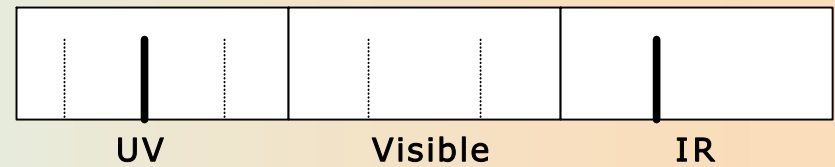
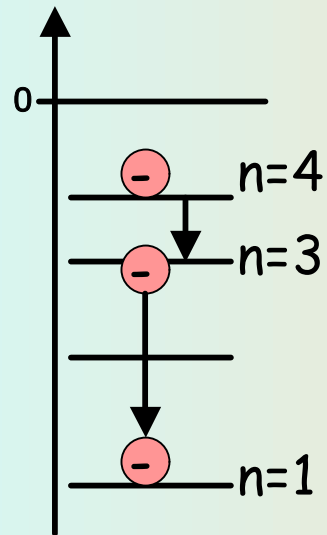
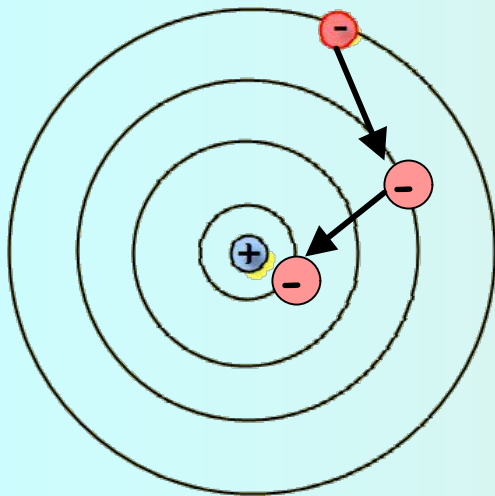
Bohr's atomic theory: answers

Draw the jumps that fit with the spectrum data



Bohr's atomic theory: answers

Draw the jumps that fit with the spectrum data



Bohr's atomic theory: answers

Draw the jumps that fit with the spectrum data

