

QUESTION 1

- a) Calculate the wavelength of the $n=2 \rightarrow n=1$ transition.
- b) Calculate the energy of the $n=2 \rightarrow n=1$ transition.
- c) Calculate the energy of the $n=3 \rightarrow n=1$ transition.



Consider all possible transitions from the $n=3$ level to the $n=1$ level.

- a) Calculate the wavelength of the $n=3 \rightarrow n=1$ transition.
- b) Calculate the energy of the $n=3 \rightarrow n=1$ transition.
- c) Calculate the energy of the $n=3 \rightarrow n=2$ transition.
- d) Calculate the energy of the $n=2 \rightarrow n=1$ transition.



QUESTION 2

Consider the following transitions from the $n=3$ level to the $n=1$ level.



Consider the following transitions from the $n=3$ level to the $n=1$ level.



Geometry 14 Prentice Hall Worksheet

Daniel F McAuley



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