

29 A photon is emitted from a hydrogen atom by an electron transition between two energy levels. The energy levels have energies X and Y .

Which expression, using conventional symbols, gives the momentum of this photon?

A $\frac{(X - Y)}{h}$

B $\frac{(X - Y)}{c}$

C $\frac{(X - Y)}{hc}$

D $\frac{h(X - Y)}{c}$