

- 28** Transitions between three energy levels in a particular atom give rise to three spectra lines of wavelengths in decreasing magnitudes, λ_1 , λ_2 and λ_3 .

Which one of the following equations correctly relates λ_1 , λ_2 and λ_3 ?

A $\frac{1}{\lambda_3} = \frac{1}{\lambda_2} - \frac{1}{\lambda_1}$

B $\frac{1}{\lambda_3} = \frac{1}{\lambda_2} + \frac{1}{\lambda_1}$

C $\frac{1}{\lambda_3} = \frac{1}{\lambda_1} - \frac{1}{\lambda_2}$

D $\lambda_1 = \lambda_2 + \lambda_3$