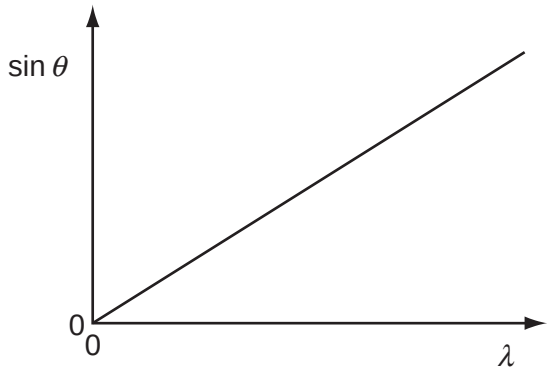
25 A diffraction grating with N lines per metre is used to deflect light of various wavelengths λ.

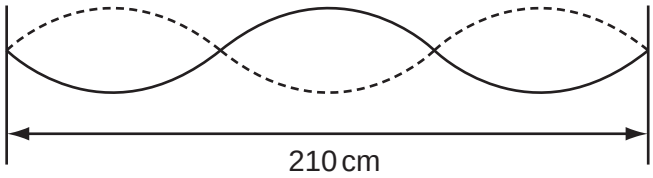
The diagram shows a relation between the deflection angles θ for different values of λ in the n^{th} order interference pattern.



What is the gradient of the graph?

A Nn **B** $\frac{N}{n}$ **C** $\frac{n}{N}$ **D** $\frac{1}{Nn}$

26 A stationary wave of frequency 80.0 Hz is set up on a stretched string of length 210 cm.



What is the speed of the waves that produce this stationary wave?

A $56.0\,m\,s^{-1}$ **B** $112\,m\,s^{-1}$ **C** $5600\,m\,s^{-1}$ **D** $11\,200\,m\,s^{-1}$

Space for working