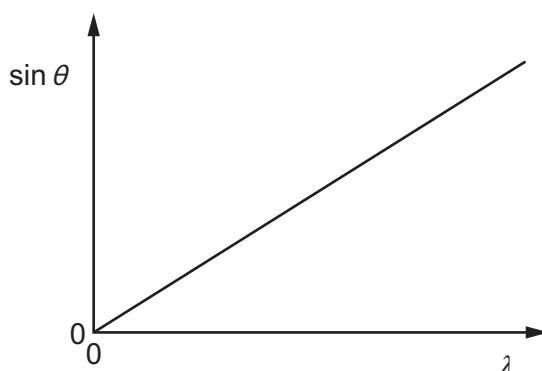**27** A diffraction grating with N lines per metre is used to deflect light of various wavelengths λ.

The graph shows a relation between the deflection angle θ and λ for different wavelengths in the nth order interference pattern.

What is the gradient of the graph?

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

28 Which wave phenomenon is **not** needed to explain the pattern of observable fringes produced by a double slit experiment?

A coherence

B diffraction

C interference

D reflection

29 Which diagram shows the electric field pattern of an isolated negative point charge?