29 Light of wavelength λ is incident normally on a diffraction grating, as shown.
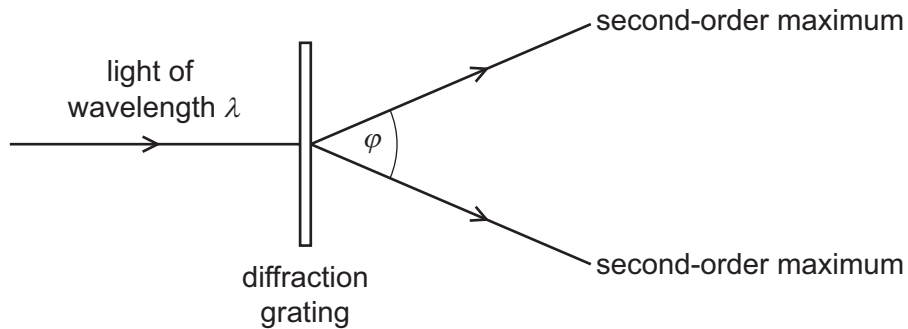

The angle between the two second-order maxima is φ.

Which expression gives the spacing of the lines on the diffraction grating?

A $\dfrac{\lambda}{\sin\varphi}$ 　　　　**B** $\dfrac{\lambda}{\sin(\varphi/2)}$ 　　　　**C** $\dfrac{2\lambda}{\sin\varphi}$ 　　　　**D** $\dfrac{2\lambda}{\sin(\varphi/2)}$