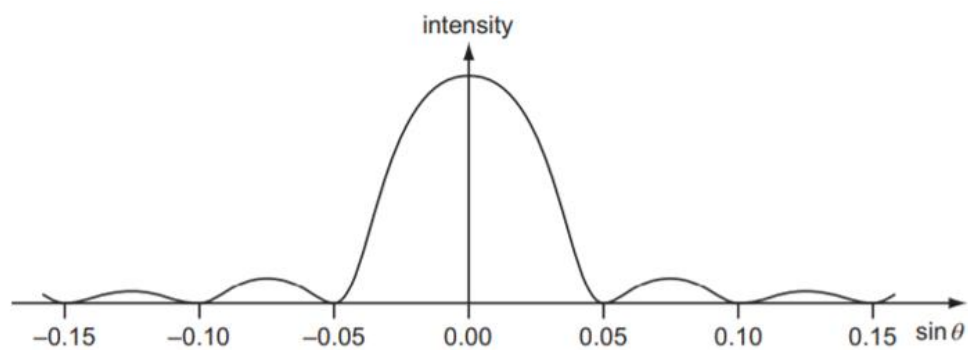


**18**

A parallel, monochromatic beam of electromagnetic radiation is incident at right angles onto a single slit of width 0.010 mm.

The graph shows the variation of the intensity of the radiation with the sine of the angle  $\theta$  through which the light is diffracted.



What is the wavelength of the radiation?

**A**

500 nm

**B**

750 nm



**C**

500  $\mu\text{m}$

**D**

750  $\mu\text{m}$