

- 19 In a spectrometer experiment, light of wavelength 400 nm is incident normally on a diffraction grating having 400 lines per millimeters.

What is the angle of diffraction of the third order diffracted beam?

- A  $13.9^\circ$       B  $18.7^\circ$       C  $28.7^\circ$       D  $56.1^\circ$