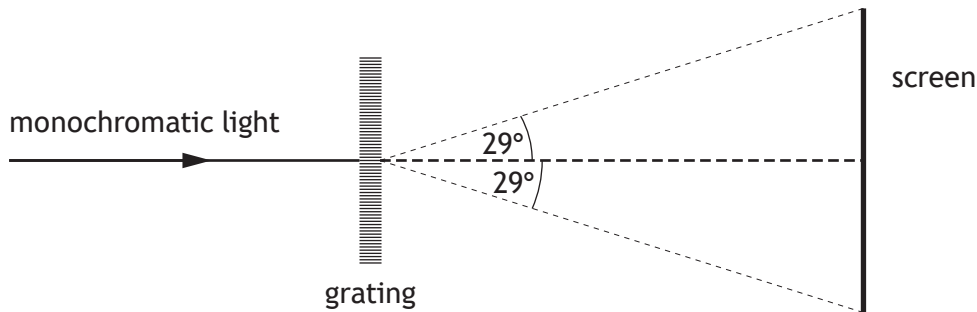


15. A ray of monochromatic light is incident on a grating. An interference pattern is observed on the screen.



The angle between the central maximum and the maximum observed at the edge of the screen is 29° .

The wavelength of the light is 605 nm.

The separation of the slits on the grating is 5.0×10^{-6} m.

The total number of maxima observed on the screen is

- A 4
- B 7
- C 8
- D 9
- E 15.