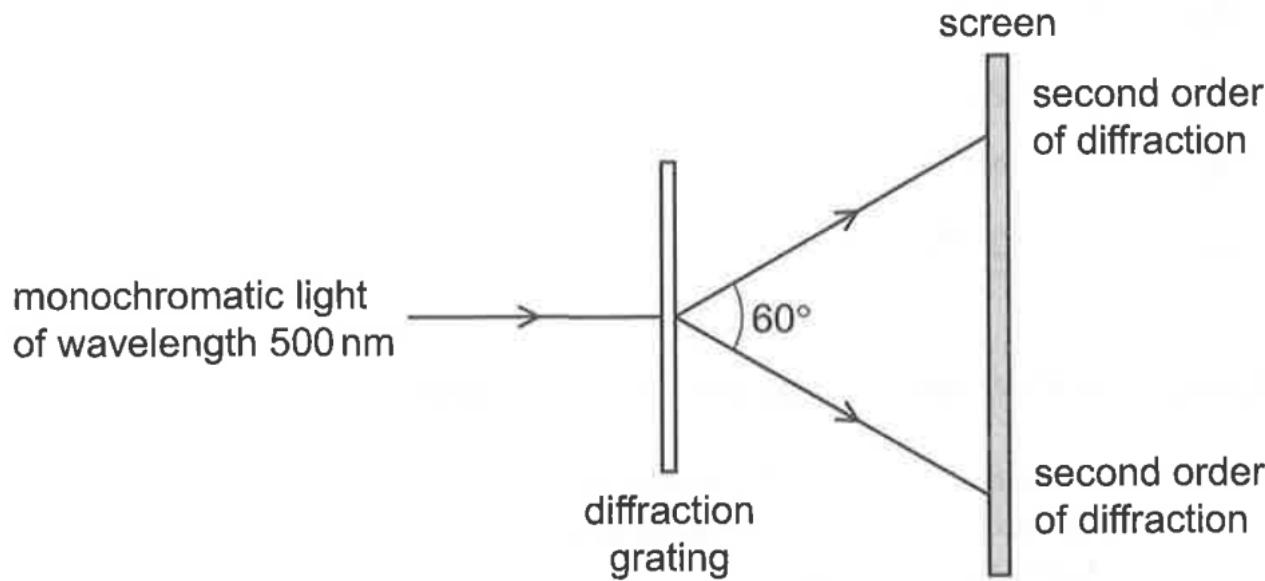


- 17 Monochromatic light of wavelength 500 nm is directed perpendicularly onto a diffraction grating. The second-order diffraction lines are observed at  $60^\circ$  to each other.



What is the number of diffraction lines per millimetre of the grating?

A 500

B 866

C 1000

D 500 000

- 18 During a double-slit experiment with light, the distance  $D$  from the slit to the screen is increased