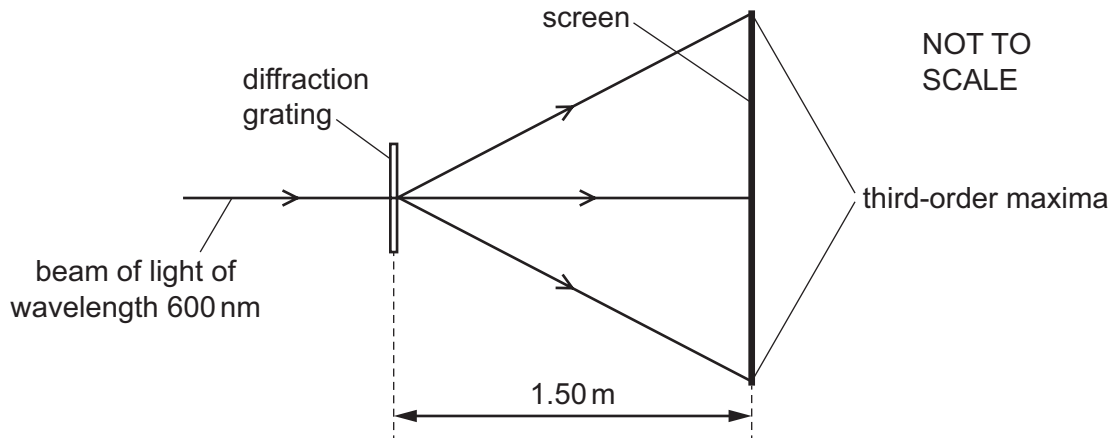


**29** A parallel beam of light of wavelength 600 nm is incident normally on a diffraction grating.

The distance between adjacent slits in the grating is  $2.0 \times 10^{-6}$  m. A screen is placed parallel to the grating, at a distance of 1.50 m from the grating. **Third-order** diffraction maxima are observed at the two ends of the screen, as shown.



What is the distance between the two ends of the screen?

- A** 1.4 m      **B** 2.7 m      **C** 3.1 m      **D** 6.2 m