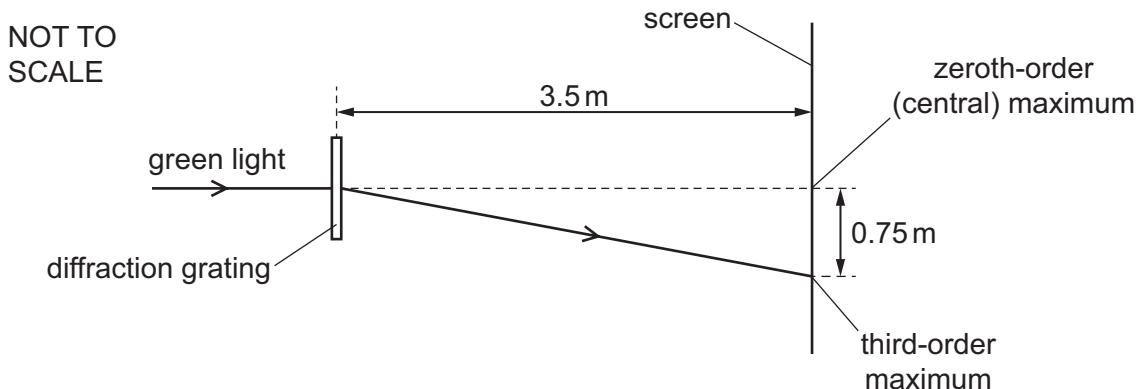


- 29 Green light of wavelength 550 nm is incident normally on a diffraction grating and produces a diffraction pattern on a screen placed 3.5 m from the diffraction grating.

The **third-order** maximum on the screen is a distance of 0.75 m from the zeroth-order (central) maximum.



What is the distance between two adjacent slits in the diffraction grating?

- A 2.6×10^{-6} m
- B 7.7×10^{-6} m
- C 7.9×10^{-6} m
- D 1.0×10^{-5} m