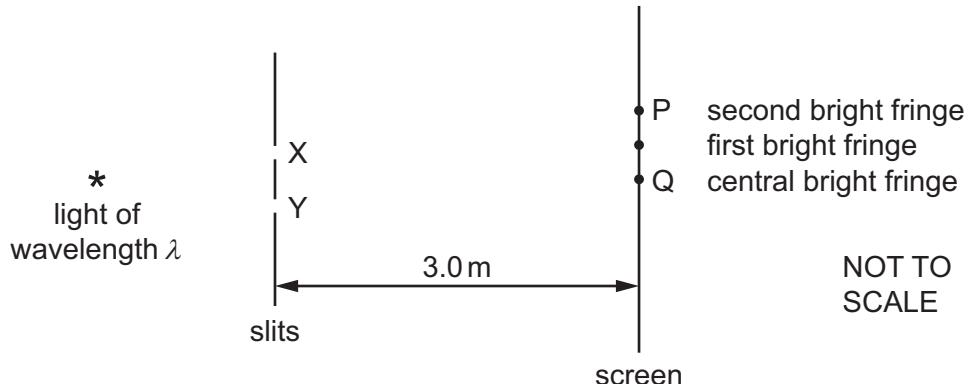


- 29 The diagram shows an arrangement for demonstrating two-source interference using coherent light of a single wavelength λ .



An interference pattern is observed on a screen 3.0 m away from the slits X and Y, which have a separation of 1.0 mm.

The central bright fringe is at Q, and the **second** bright fringe from the centre is at P.

What is the distance between Q and P?

- A $6.0 \times 10^3 \lambda$
- B $3.0 \times 10^3 \lambda$
- C $6.7 \times 10^{-4} \lambda$
- D $3.3 \times 10^{-4} \lambda$