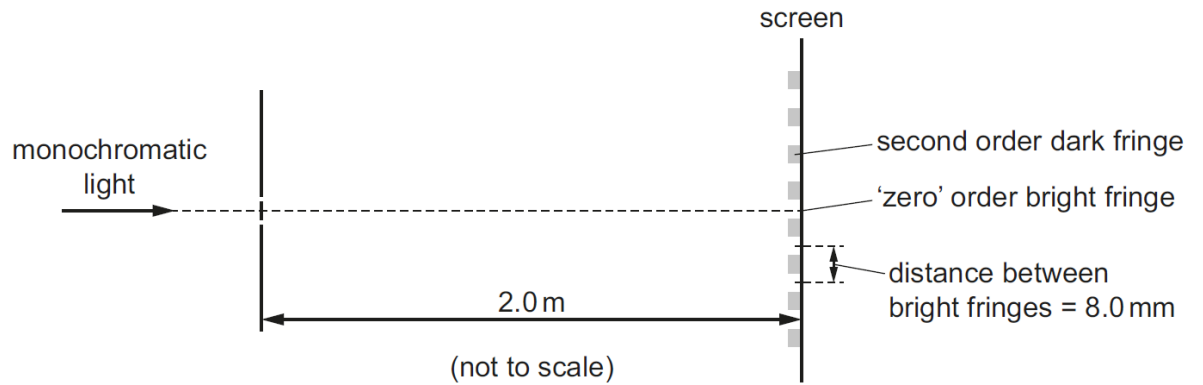


- 19** Monochromatic light is incident on a pair of narrow slits a distance of 0.10 mm apart. A series of bright and dark fringes are observed on a screen a distance of 2.0 m away. The distance between adjacent bright fringes is 8.0 mm.



What is the path difference between the light waves from the two slits that meet at the second order dark fringe?

- A** 200 nm                      **B** 400 nm                      **C** 600 nm  
**D** 800 nm