

- 9 Two waves with wavelength λ are produced by the same source. The waves travel different distances and then meet.

At the point where they meet, the path difference between the two waves is $\frac{\lambda}{8}$.

Which of the following is the phase difference, in radians, between the two waves?

☐ A $\frac{\pi}{2}$

☐ B $\frac{\pi}{4}$

☐ C $\frac{\pi}{8}$

☐ D $\frac{\pi}{16}$

(Total for Question 9 = 1 mark)