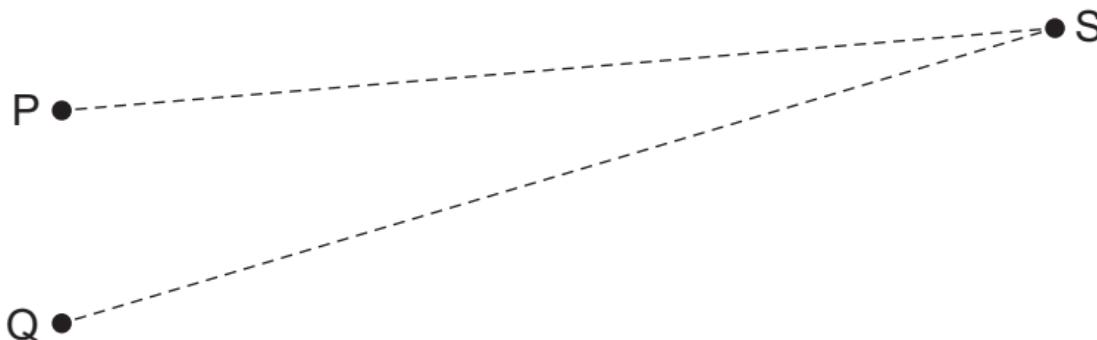


- 28 Two sources of microwaves P and Q produce coherent waves with a phase difference of 180° . The waves have the same wavelength λ .



At the point S there is a minimum in the interference pattern produced by waves from the two sources. The distance (QS – PS) is called the path difference.

Which expression could represent the path difference?

A $\frac{\lambda}{4}$

B $\frac{\lambda}{2}$

C λ

D $\frac{3\lambda}{2}$