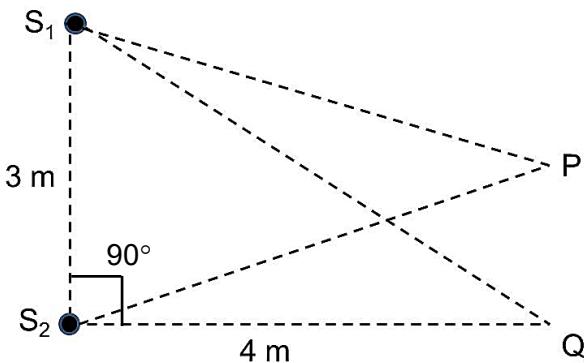


- 14 Two sources of waves, S_1 and S_2 , are situated as shown in the figure below. Individually, each source emits waves of intensity I .



Equidistant from S_1 and S_2 , a detector at P registers a steady minimum wave intensity. The same detector registers the next steady minimum intensity when it moves to point Q . Which of the following statements is false about the two sources of waves?

- A The two sources of waves have the same amplitude.
- B The two sources of waves are coherent.
- C The two sources of waves have a phase difference of π radians.
- D The waves from the two sources have a wavelength of 2 m.

