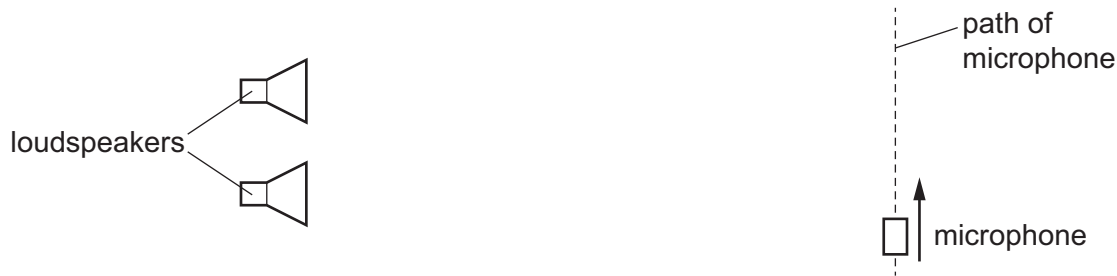


28 Two loudspeakers are placed near to each other and facing in the same direction.

A microphone connected to an oscilloscope is moved along a line some distance away from the loudspeakers, as shown.



Which statement about the waves emitted by the loudspeakers is **not** a necessary condition for the microphone to detect a fixed point along the line where there is no sound?

- A** The waves must be emitted in phase.
- B** The waves must be emitted with a similar amplitude.
- C** The waves must have the same frequency.
- D** The waves must have the same wavelength.