

**16** Two coherent progressive waves from different sources meet at a point.

Which condition **must** be satisfied for there to be zero resultant amplitude at the point where the waves meet?

- A** The two waves must be emitted from their sources with the same intensity.
- B** The two waves must be in phase with each other at the point.
- C** The two waves must be travelling in opposite directions.
- D** The two waves must have the same amplitude at the point.