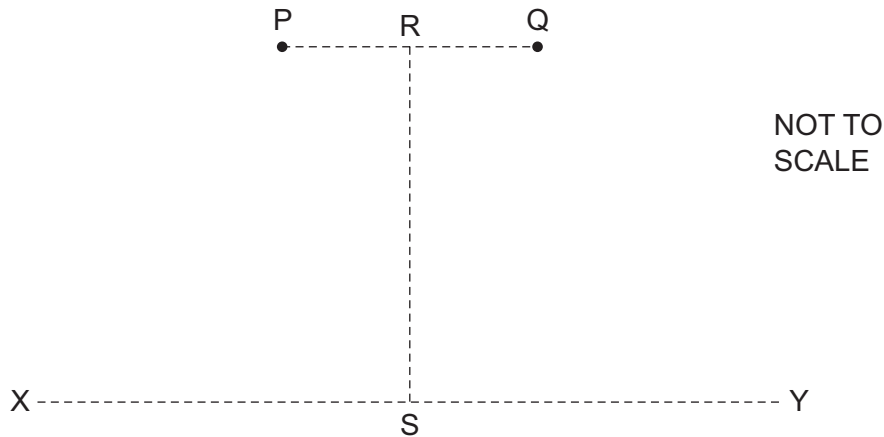


- 30** Coherent waves are produced at P and at Q and travel outwards in all directions. The line RS is halfway between P and Q and perpendicular to the line joining P and Q. The distance RS is much greater than the distance PQ.



Along which line, or lines, is an interference pattern observed?

- A** both RS and XY
 - B** RS only
 - C** XY only
 - D** neither RS nor XY
- 31** Two horizontal parallel plate conductors are separated by a distance of 5.0 mm in air. The lower