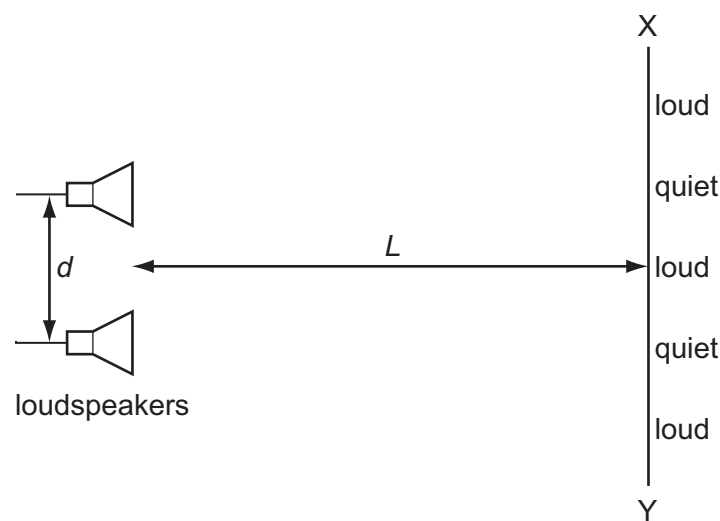


28 The diagram shows two loudspeakers producing sound waves that are in phase.

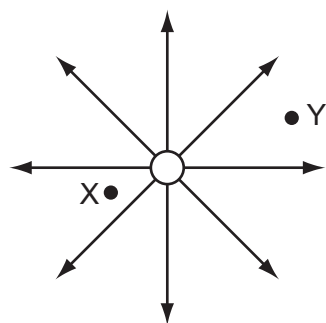


As a student moves from X to Y, the intensity of the note she hears is alternately loud and quiet.

The distance between adjacent loud and quiet regions may be reduced by

- A decreasing distance  $d$ .
- B increasing distance  $L$ .
- C decreasing the amplitude.
- D increasing the frequency.

29 The diagram shows the electric field near a point charge and two electrons X and Y.



Which row describes the forces acting on X and Y?

	direction of force	magnitude of force on X
A	radially inwards	less than force on Y
B	radially inwards	greater than force on Y
C	radially outwards	less than force on Y
D	radially outwards	greater than force on Y