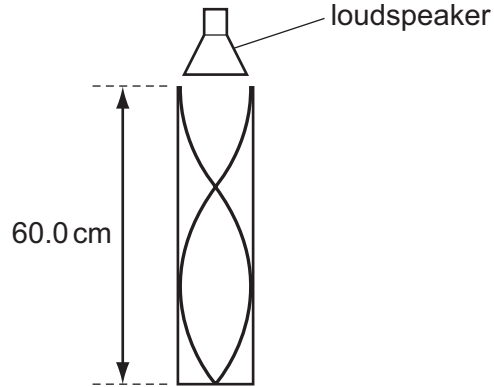


27 The sound from a loudspeaker placed above a tube causes resonance of the air in the tube.

A stationary wave is formed with two nodes and two antinodes as shown.



The speed of sound in air is 330 ms^{-1} .

What is the frequency of the sound?

A 413 Hz

B 550 Hz

C 830 Hz

D 1650 Hz

28 Light of wavelength λ passes through a diffraction grating with slit spacing d . A series of lines is