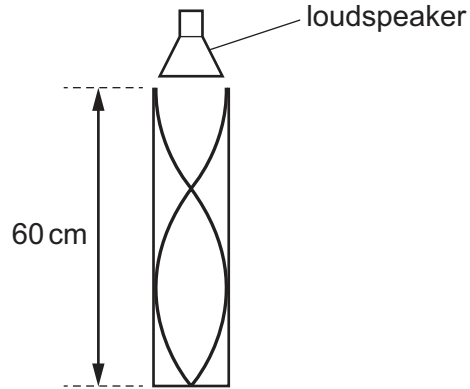


24 The sound from a loudspeaker placed above a tube causes resonance of the air in the tube.

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



The speed of sound in the air is 340 m s^{-1} .

What is the frequency of the sound?

A 430 Hz

B 570 Hz

C 850 Hz

D 1700 Hz

25 A police car has a two-tone siren emitting sound of frequencies of 700 Hz and 1000 Hz