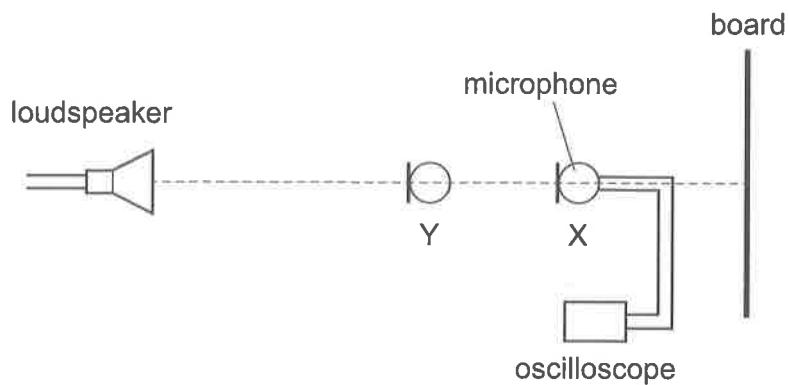
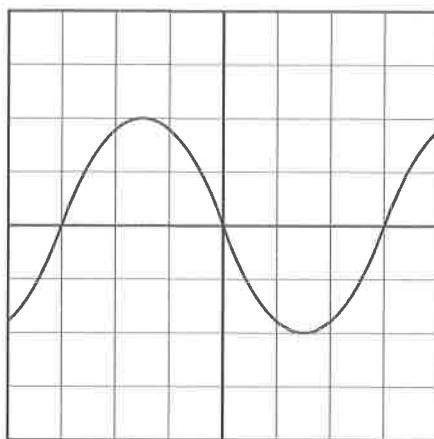


17 Stationary sound waves are investigated using the apparatus shown.



X and Y are adjacent positions of the microphone that give maximum amplitude on the oscilloscope, as shown.



oscilloscope screen when microphone is at X

The distance XY is 5.0 cm and the time base of the oscilloscope is $0.050 \text{ ms div}^{-1}$.

What are the frequency and the wavelength of the sound wave?

	frequency /kHz	wavelength /cm
A	3.3	5.0
B	3.3	10
C	5.0	5.0
D	5.0	10