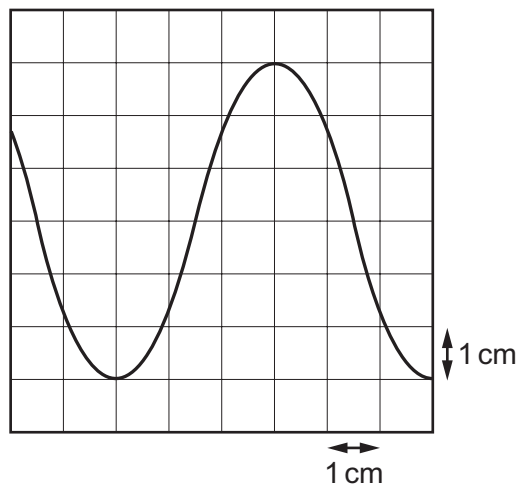


- 23** A microphone connected to the Y-plates of a cathode-ray oscilloscope (CRO) is placed in front of a loudspeaker. The trace on the screen of the CRO is shown.



The time-base setting is  $0.5 \text{ ms cm}^{-1}$  and the Y-plate sensitivity is  $0.2 \text{ mV cm}^{-1}$ .

What is the frequency of the sound from the loudspeaker and what is the amplitude of the trace on the CRO?

	frequency / Hz	amplitude / mV
<b>A</b>	330	0.6
<b>B</b>	330	1.2
<b>C</b>	670	0.6
<b>D</b>	670	1.2