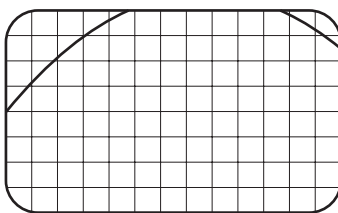


- 20** In an experiment, a student uses a microphone and a cathode-ray oscilloscope (CRO) to analyse a sound wave. The diagram shows the trace on the screen of the CRO.

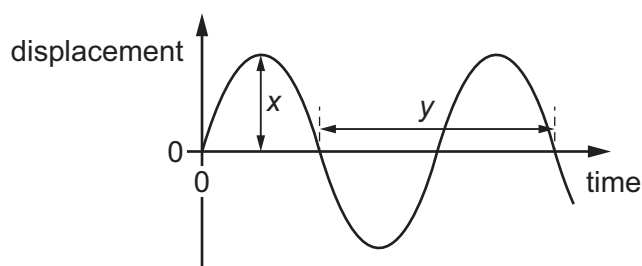


The student is expecting a sinusoidal waveform to be shown on the screen.

Which changes should the student make to the time-base and the y -gain of the CRO so that the screen shows a continuous trace for one complete cycle of the waveform?

	time-base	y -gain
A	decrease	decrease
B	decrease	increase
C	increase	decrease
D	increase	increase

- 21** The graph shows the variation with time of the displacement of a particle in a progressive wave.



Two measurements, x and y , are labelled on the graph.

What do x and y represent?

	x	y
A	amplitude	period
B	frequency	period
C	amplitude	wavelength
D	frequency	wavelength