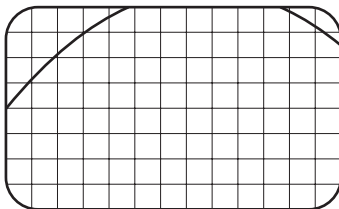


- 20** In an experiment, a student uses a microphone and a cathode-ray oscilloscope (CRO) to analyse a sound wave. The diagram shows the trace on the screen of the CRO.



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 below shows the variation with time of the displacement of a particle in a sinusoidal wave.