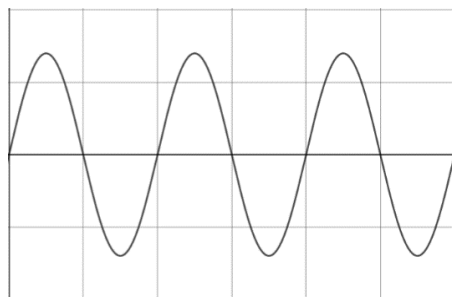


- 27** An alternating voltage is applied across the Y-plates of a cathode-ray oscilloscope (c.r.o.) and produces the trace as shown below.



Scale: 1 div = 1 cm

If the peak voltage of the alternating voltage is 2.8 V and its frequency is 50 Hz, what are the time-base and Y-gain settings of the c.r.o.?

	time-base	Y-gain
A	10 $\mu\text{s cm}^{-1}$	2.0 V cm^{-1}
B	20 $\mu\text{s cm}^{-1}$	1.0 V cm^{-1}
C	10 ms cm^{-1}	2.0 V cm^{-1}
D	20 ms cm^{-1}	1.0 V cm^{-1}