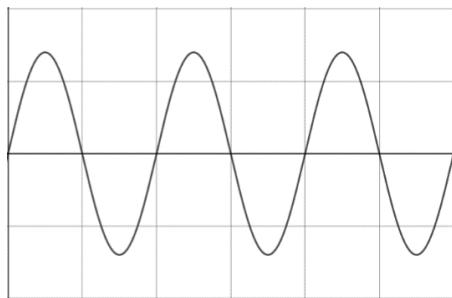


- 27** An alternating voltage is applied across the Y-plates of a cathode-ray oscilloscope (c.r.o.) and produces the trace as shown below.



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