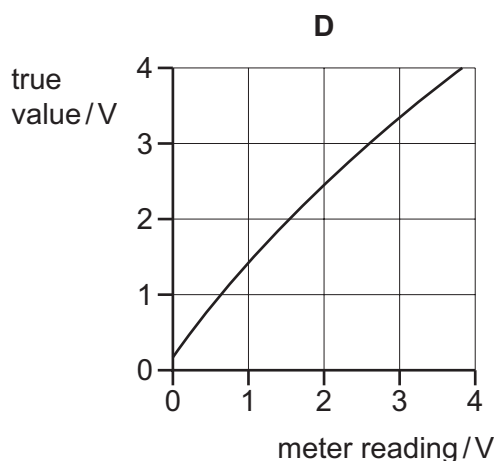
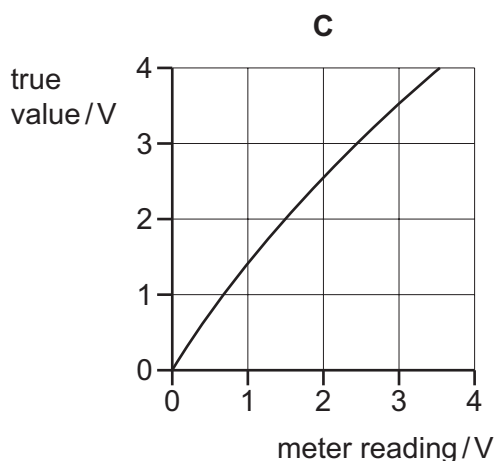
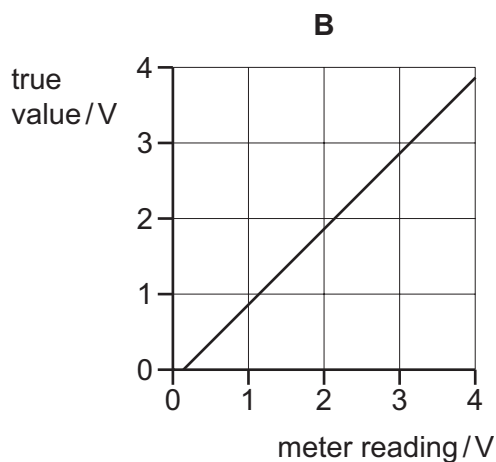
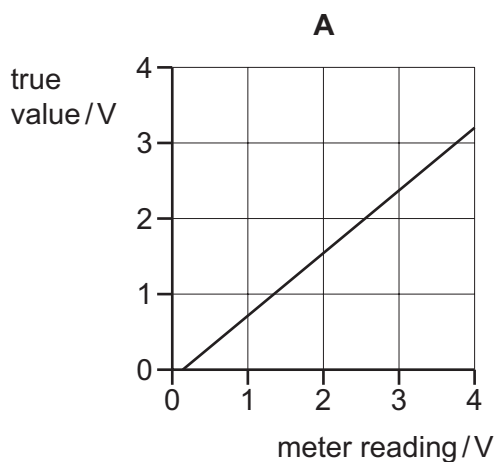
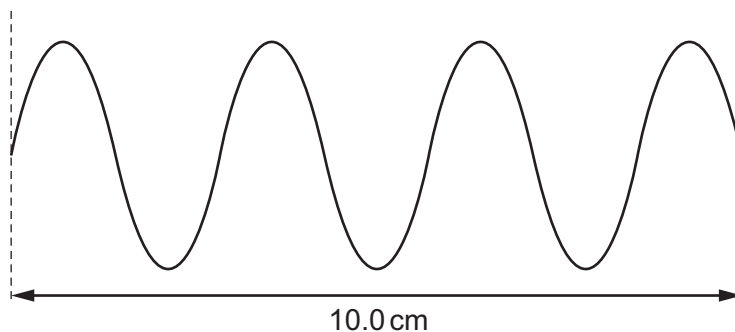


- 4 A voltmeter gives readings that are larger than the true values and has a systematic error that varies with voltage.

Which graph shows the calibration curve for the voltmeter?



- 5 A student uses a cathode-ray oscilloscope (c.r.o.) to measure the period of a signal. She sets the time-base of the c.r.o. to 5 ms cm^{-1} and observes the trace illustrated below. The trace has a length of 10.0 cm.



What is the period of the signal?

- A** $7.1 \times 10^{-6} \text{ s}$ **B** $1.4 \times 10^{-5} \text{ s}$ **C** $7.1 \times 10^{-3} \text{ s}$ **D** $1.4 \times 10^{-2} \text{ s}$