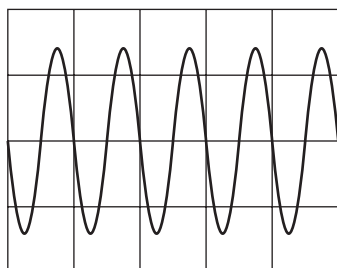


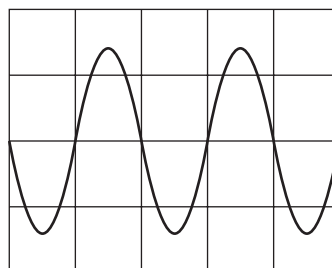
- 4 The Y-input terminals of a cathode-ray oscilloscope (c.r.o.) are connected to a supply of peak value 5.0 V and of frequency 50 Hz. The time-base is set at 10 ms per division and the Y-gain at 5.0 V per division.

Which trace is obtained?

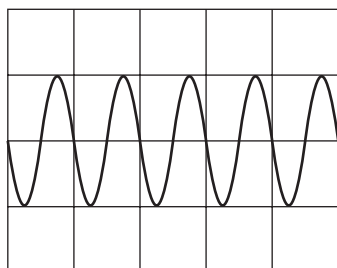
**A**



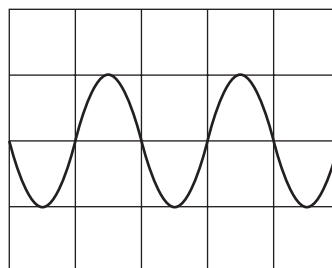
**B**



**C**



**D**



- 5 The measurement of a physical quantity may be subject to random errors and to systematic errors.

Which statement is correct?

- A** Random errors can be reduced by taking the average of several measurements.
- B** Random errors are always caused by the person taking the measurement.
- C** A systematic error cannot be reduced.
- D** A systematic error results in a different reading each time the measurement is taken.