

Exercise 3.1

1. Here is part of a data sheet for the Schmitt inverter:

When connected to a 12 V supply:

- Logic 0 = 0 V
- Logic 1 = 12 V
- The output changes from logic 1 to logic 0 when a **rising** input voltage reaches 5 V
- The output changes from logic 0 to logic 1 when a **falling** input voltage reaches 3 V

The output signal produced by a temperature-sensing unit is shown in **Graph 1**.

Complete **Graph 2** to show the signal obtained at the output of the Schmitt inverter.

