

The figure below shows the contours of the temperature along one wall of a heated room through one winter day, with time indicated as on a 24-hour clock. The room has a heater located at the left-most corner of the wall, and one window in the wall. The heater is controlled by a thermostat about 2 feet from the windows.

1. Where is the window?
2. When is the window open?
3. When is the heat on?
4. Draw graphs of the temperature along the wall of the room at 6 AM, at 11 AM, at 3 PM (15 hours), and at 5 PM (17 hours).
5. Draw a graph of the temperature as a function of time at the heater, at the window, and midway between them.
6. To what temperature do you think the thermostat is set?
7. Where is the thermostat?

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