

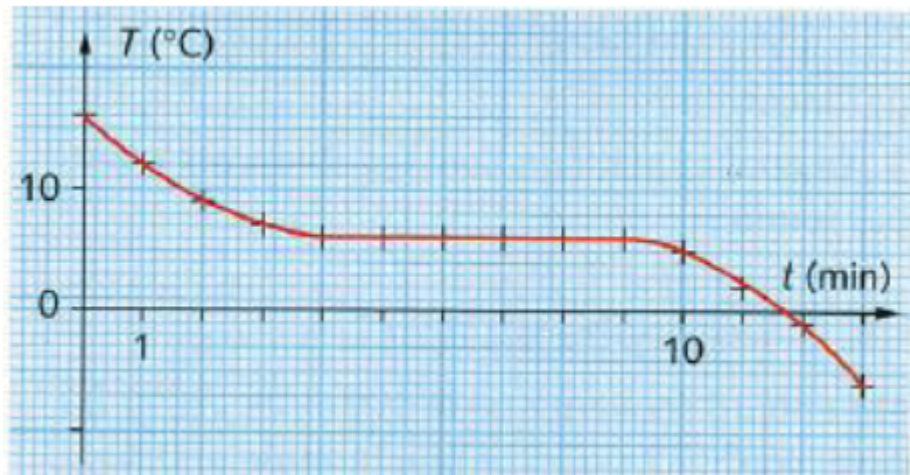
EXERCISES To make use of a graph

1. Answers that you need to know:

- a. What are the state of matter?
- b. How is called the transition from the solid state to the liquid state?
- c. What is evaporation?
- d. What are the temperatures of change of state of pure water?
- e. Are the temperatures of change of state even the same for colorless liquids?

2. To make use of a graph

A student pick up each minute the temperature of an unknown colorless liquid which is cooled down. He obtains the following graph.



- a. What are the quantities on the axis?
- b. How long lasts the experience?
- c. How does the temperature vary between 16°C and 6°C?
- d. Color in blue the constant part of the curve.
- e. Color in black the part of the curve that represents the change of state.
- f. At what time begins the change of state?
- g. How long lasts the change of state?
- h. At which temperature does this change of state take part?
- i. In which state is the colorless substance at the beginning of the experience?
- j. In which state is the substance at the end of the experience?
- k. Is this substance water?

3. To make use of a graph

Find amongst these graphs, which one(s) correspond to the freezing of pure water under normal pressure.

