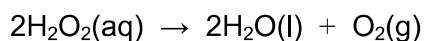
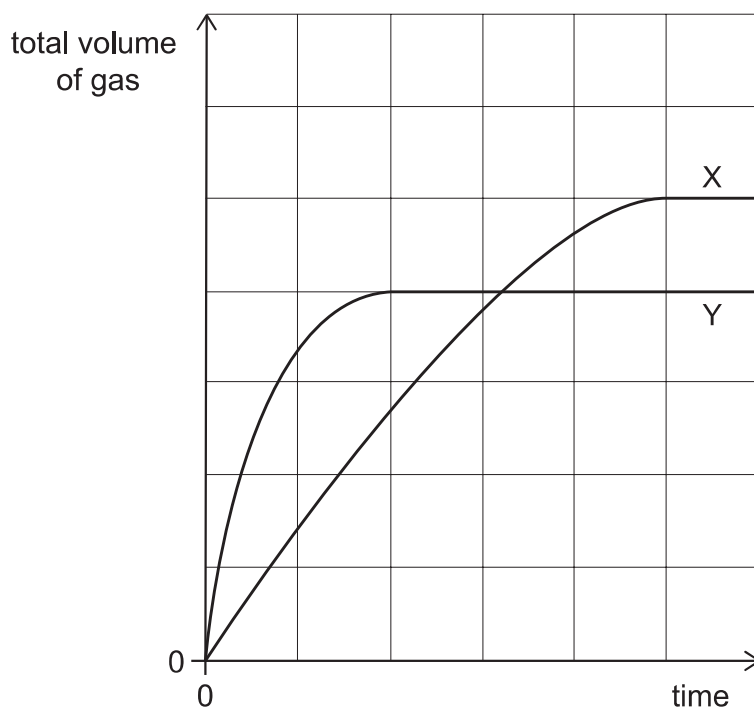


- 14 The decomposition of hydrogen peroxide in the presence of a manganese(IV) oxide catalyst produces water and oxygen gas.



0.2 g of manganese(IV) oxide granules are added to 50 cm³ of 0.1 mol dm⁻³ hydrogen peroxide at 20 °C. The volume of gas collected is shown on the graph as curve X.

A second experiment is carried out at 20 °C using the same mass of manganese(IV) oxide. The volume of gas collected is shown as curve Y.



Which of the following conditions could result in curve Y?

	<i>manganese(IV) oxide particle size</i>	<i>volume of hydrogen peroxide / cm³</i>	<i>concentration of hydrogen peroxide / mol dm⁻³</i>
A	powder	20	0.2
B	powder	25	0.2
C	powder	50	0.1
D	granules	20	0.1
E	granules	25	0.2