

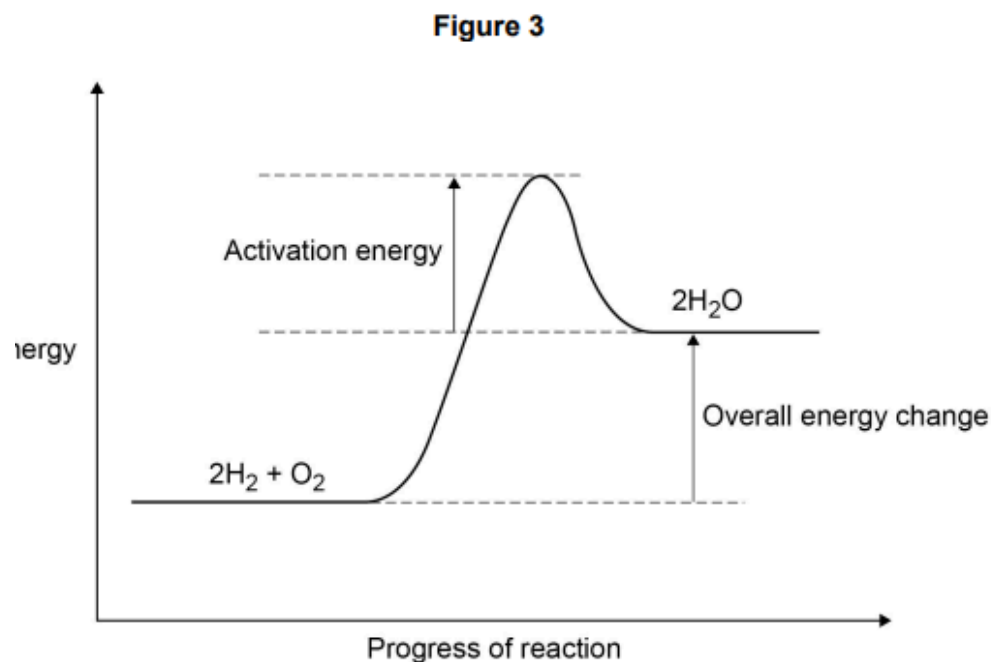
(Reaction profiles)

Q1. (2020)

The reaction between hydrogen and oxygen releases energy.

A student drew a reaction profile for the reaction between hydrogen and oxygen.

Figure 3 shows the student's reaction profile.



The student made **two** errors when drawing the reaction profile.

Describe the **two** errors.

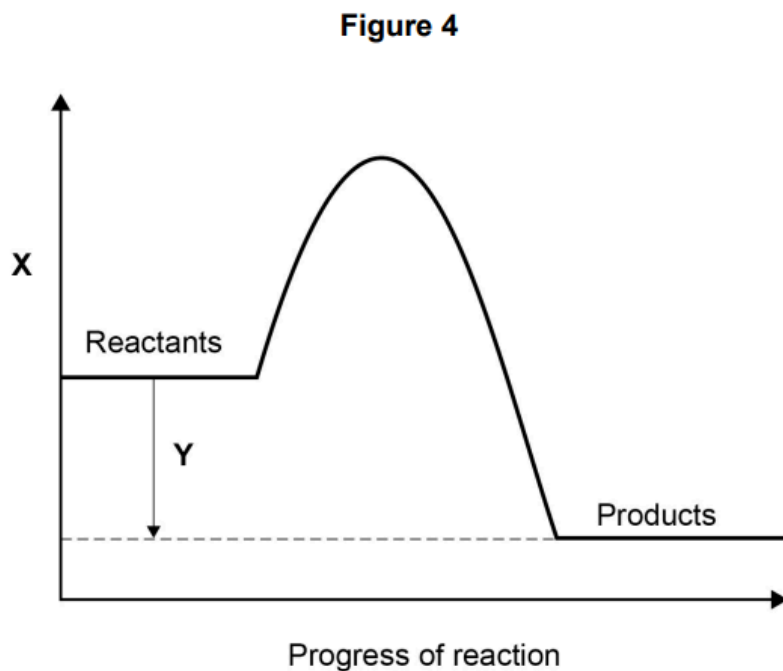
[2 marks]

1 _____

2 _____

Q2. a). (2022)

Figure 4 shows a reaction profile for the reaction of sodium carbonate with hydrochloric acid.



What do labels **X** and **Y** represent on **Figure 4**?

[2 marks]

X _____

Y _____

Q2. b). (2022)

How does the reaction profile show that the reaction is exothermic?

Use **Figure 4**.

[1 mark]
