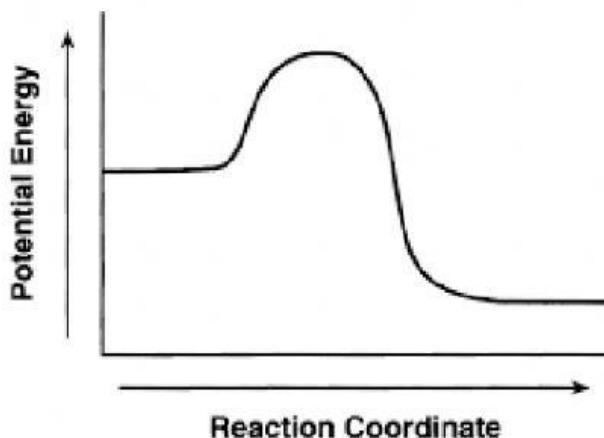


Q1 : Classify the following statements to endothermic reactions or exothermic reactions .

- a. The reaction releases heat .
- b. The amount of enthalpy change is 140 Kj
- c. $H_2 + N_2 + 20Kj \rightarrow NH_3$
- d. The energy of products is less than the energy of the reactants .

Q2: study the following graph and answer the questions .



- A. Label the previous graph .
- B. Which type of reaction does it represent it . explain your answer .
- C. Does it release or absorb energy ?

Q3 : hydrogen gas reacts with oxygen gas with heat to produce water, write the equation of the chemical reaction