| | (+1845) + (-1884) | |
|-------|--|----------------|
| | = -39 kJmol-1 | |
| | | |
| | (b) State whether the reaction is exothermic or endothermic. Explain | (1mk) |
| | Exathemic - Bond Formation energy | is high |
| | than bond breakage ene | .r.g.y |
| V | A certain mass of a metal E reacted with excess dilute hydrochloric acid at volume of hydrogen gas liberated was measured after every 30 seconds. Twere represented as shown in the graph below. | |
| | olume (cm²) | |
| | Time (sec) | |
| | | |
| | | |
| a) N | Name one piece of apparatus that may be used to measure the volume of (1mk) | gas liberated. |
| 1 | | |
| vate | Inadiated go Jar. On the same axis, sketch the curve that would be obtained if the exper | |
| | Gradsafed gas Jar. | |
| b) I) | () _ | |
| 10 | epeated at 33 C. | (1mk) |
| | | |
| ii) | Explain the shape of your curve in b(i) above. | (2mks) |

Increase in temp, increases the kinetic energy. This increases the humber of effective collisions per given time, resulting in increase in rate of reaction.