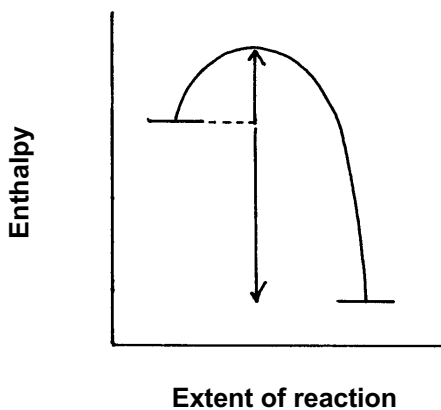


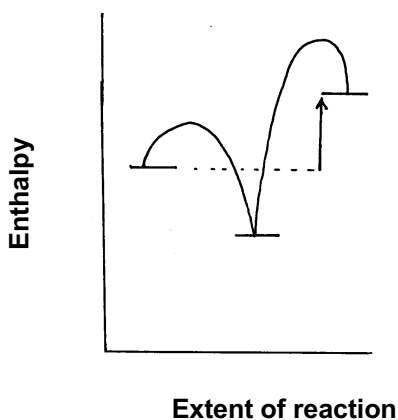
AP WORKSHEET 06ABCDEFGHI: ANSWERS

1.

(a)



(b)



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2.

(a) Exothermic, energy is released

(b) 198.3 kJ of energy released or $\Delta H = -198.3$ kJ

(c) An INCREASE of 14.91 K

3. +86 kJ

4. 218 kJ (+ve if bonds are broken, -ve if bonds are made)

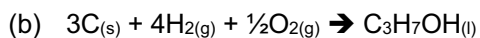
5.

(a) -184 kJ

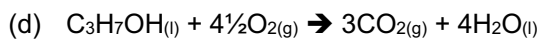
(b) -95 kJ

6.

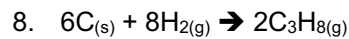
(a) The enthalpy change when 1 mole of a substance is formed from its elements in their standard states under standard conditions



(c) The enthalpy change when 1 mole of a substance is burned completely in oxygen under standard conditions



7. The enthalpy change in a reaction is independent of the route taken



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