

## SCH4U

## Topic: Energetics

## Worksheet: Hess' Law

1. Ethene,  $\text{C}_2\text{H}_4$ , reacts with water to form ethanol,  $\text{CH}_3\text{CH}_2\text{OH(l)}$ .



Determine the enthalpy change of this reaction, given the following thermochemical equations:



2. A typical automobile engine uses a lead-acid battery. During discharge, the following chemical reaction takes place:



Determine the enthalpy change of this reaction, given the following equations:



3. Mixing household cleaners can result in the production of hydrogen chloride gas,  $\text{HCl(g)}$ . Not only is this gas dangerous in its own right, but it also reacts with oxygen to form chlorine gas and water vapour.



Determine the enthalpy change of this reaction, given the following equations:



4. Calculate the enthalpy change of the following reaction between nitrogen gas and oxygen gas, given the thermochemical equations below:



5. Calculate the enthalpy change of the following reaction, given equations (1), (2), and (3).



6. Calculate  $\Delta\text{H}$  for the reaction  $\text{C}_2\text{H}_4(\text{g}) + \text{H}_2(\text{g}) \rightarrow \text{C}_2\text{H}_6(\text{g})$ , from the following data.



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**Guillaume Favre**

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