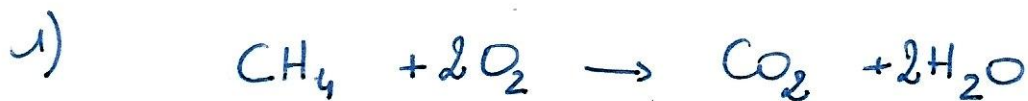


1ère
spé

Activité n°1 - Correction

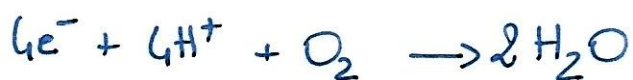
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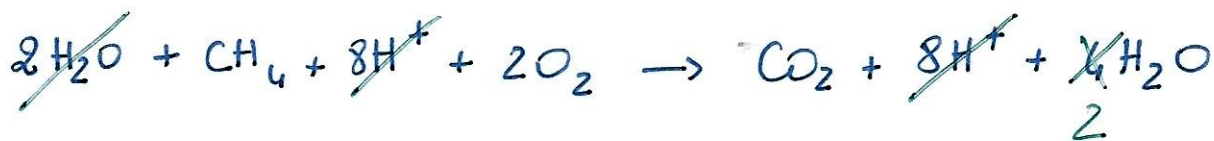
2) réduction du méthane - Couple CO_2/CH_4



oxydation du dioxygène $\text{O}_2/\text{H}_2\text{O}$



on ajoute :



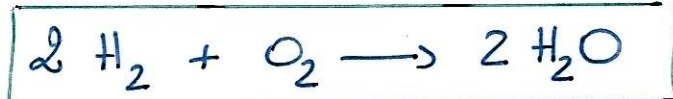
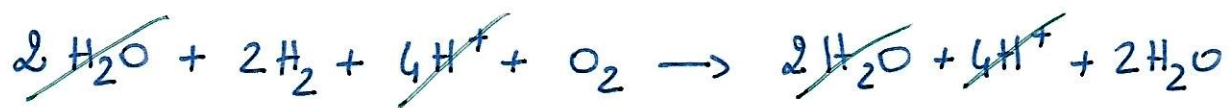
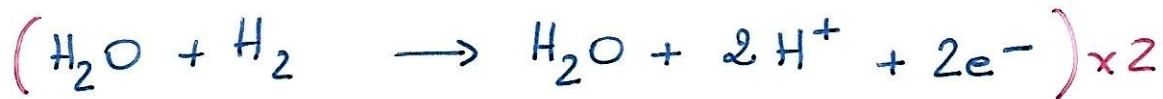
on retrouve l'équation écrite à la première question.

On en conclue que les réactions de combustion sont des réactions d'oxydo-réduction.

3) Combustion complète du dihydrogène :

couples : $\text{H}_2\text{O} / \underline{\text{H}_2}$

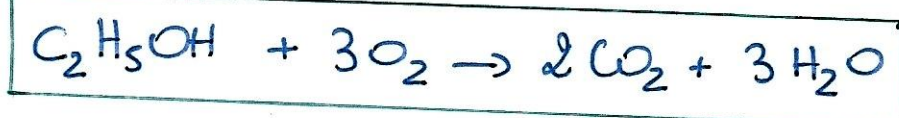
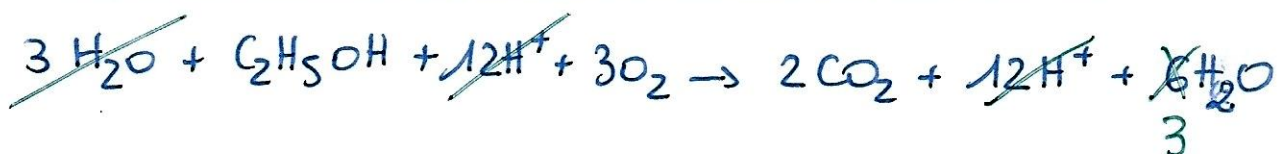
$\underline{\text{O}_2} / \text{H}_2\text{O}$



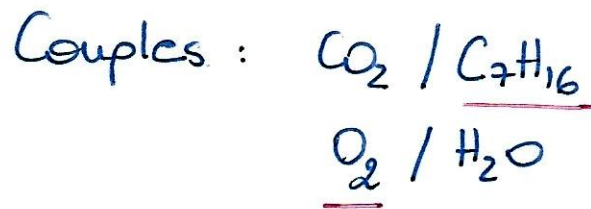
Combustion complète du bioéthanol :

couples : $\text{CO}_2 / \underline{\text{C}_2\text{H}_5\text{OH}}$

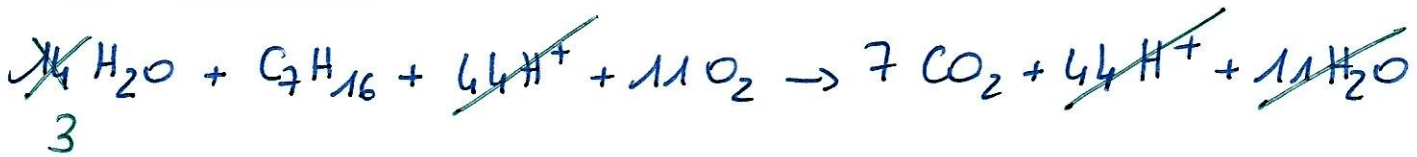
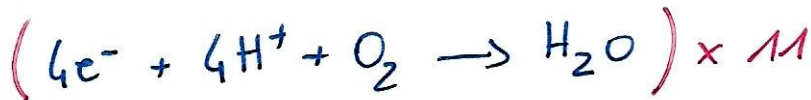
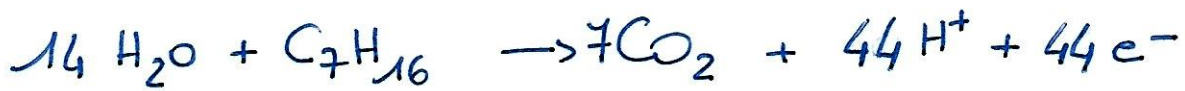
$\underline{\text{O}_2} / \text{H}_2\text{O}$



Combustion complète de l'essence:



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4) On peut qualifier le dihydrogène de "carburant vert" car sa combustion ne produit que de l'eau et pas de dioxyde de carbone.