


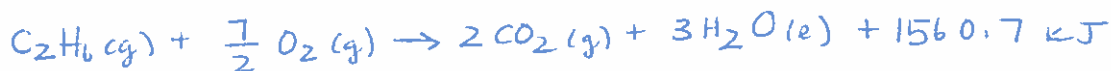
7. product for combustion since it is exothermic
-ve value

8. ΔH is on the right - heat is released (exothermic)
 \therefore the reactants have more potential energy E 

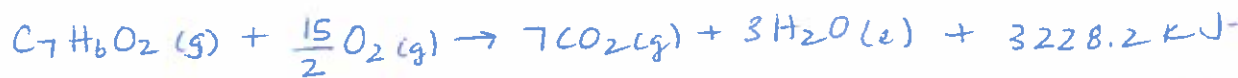
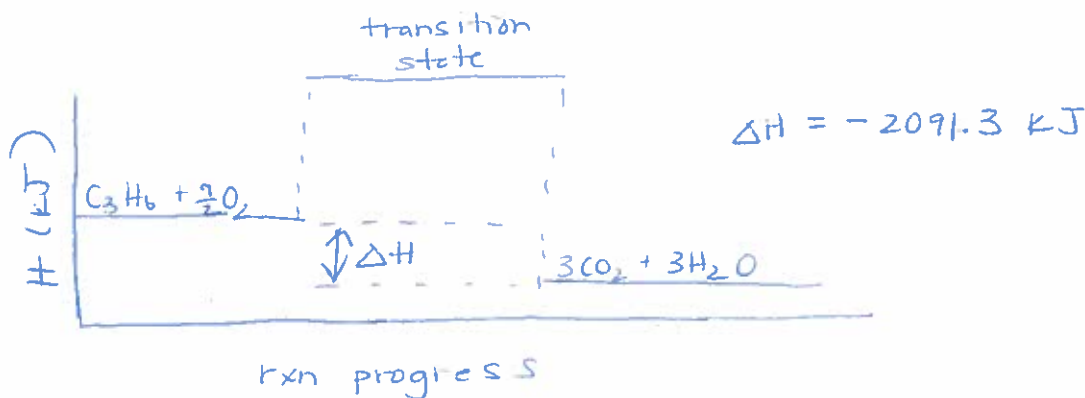


OR

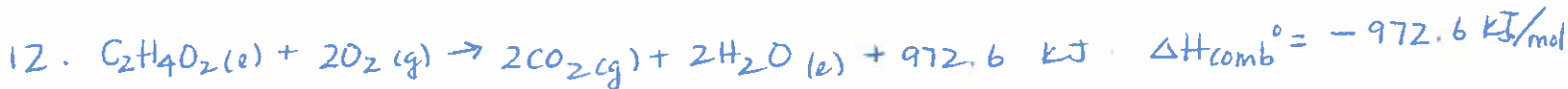
$$\begin{aligned} & 2 C_2H_6 \\ \therefore & 2 (-1560.7 \text{ kJ/mol}) \\ & = 3121.4 \end{aligned}$$



10.



$$\Delta H^\circ_{\text{comb}} = -3228.2 \text{ kJ/mol}$$



\therefore methyl ethanoate ($C_3H_6O_2$) gives off more $\Delta H_{\text{comb}}^\circ = -1592.2 \text{ kJ/mol}$