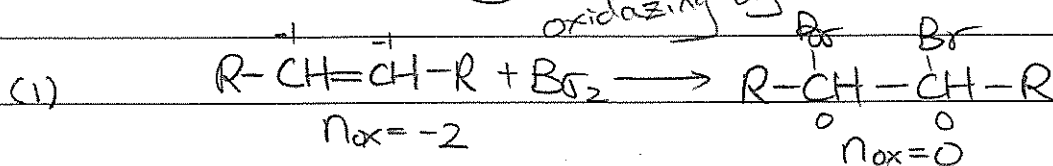


$$N_{\text{ox}}(\text{product}) - N_{\text{ox}}(\text{reactant}) = (+3) - (-1) = +4$$

> 0 oxidation

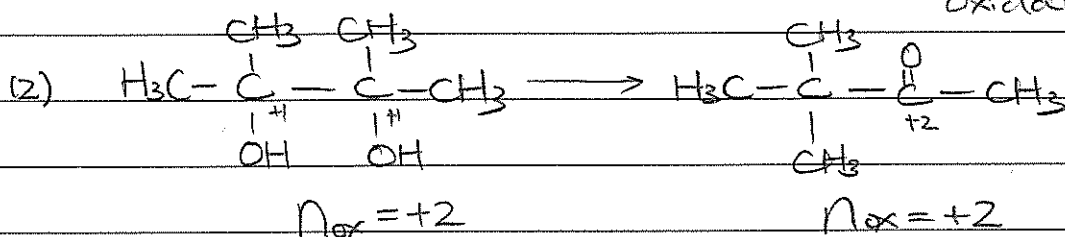
< 0 reduction

Q: how about the transformation of



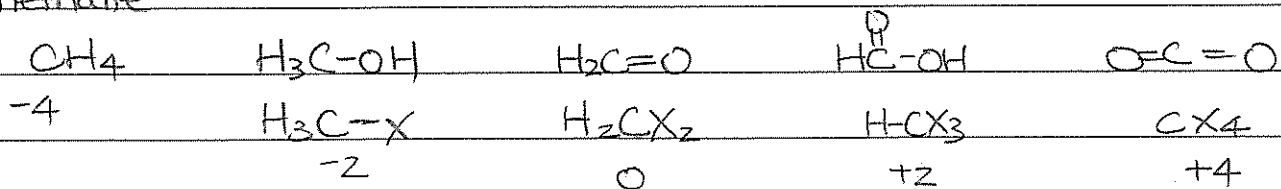
$$N_{\text{ox}}(\text{product}) - N_{\text{ox}}(\text{reactant}) = (0) - (-2) = +2$$

oxidation



increasing oxidation number  $\longrightarrow$

methane



oxidizing agent: the reagent that brings about oxidation

