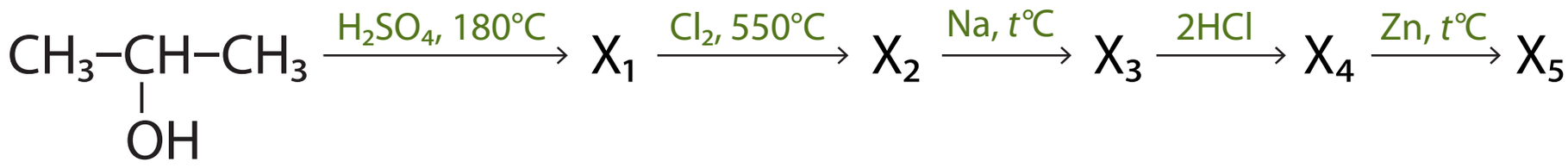
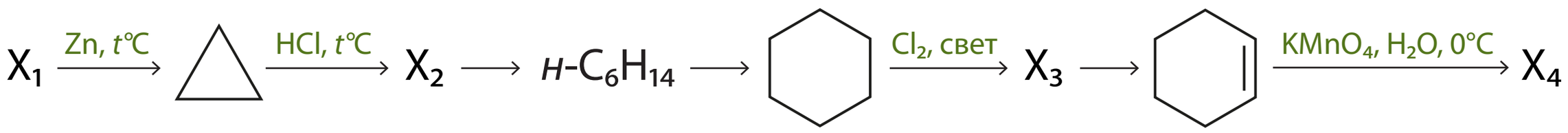
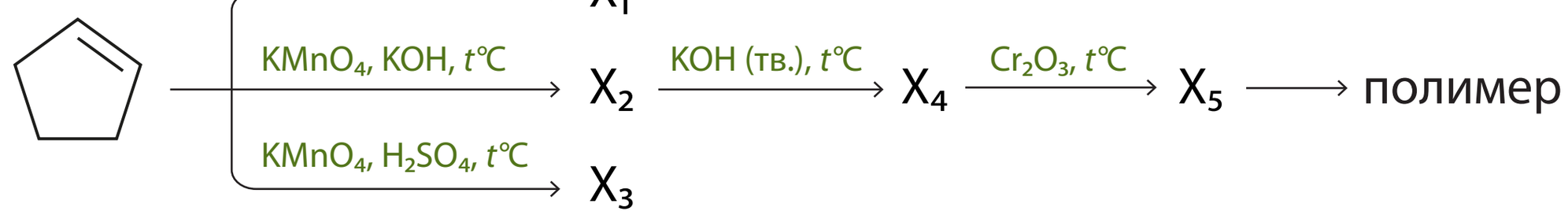
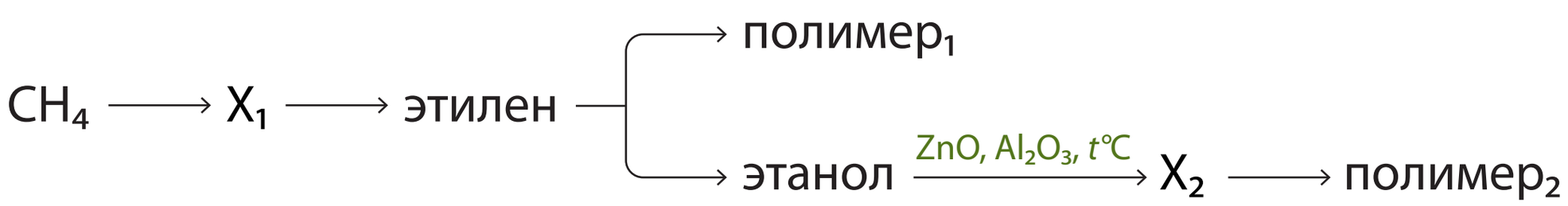
Цепочки по теме «Циклы и диены»

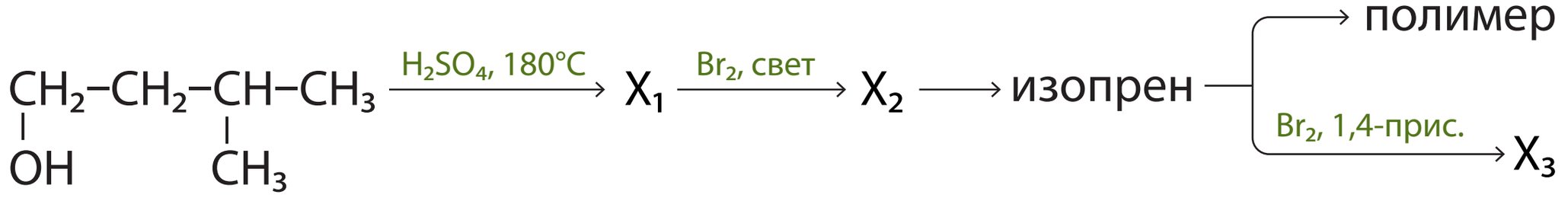
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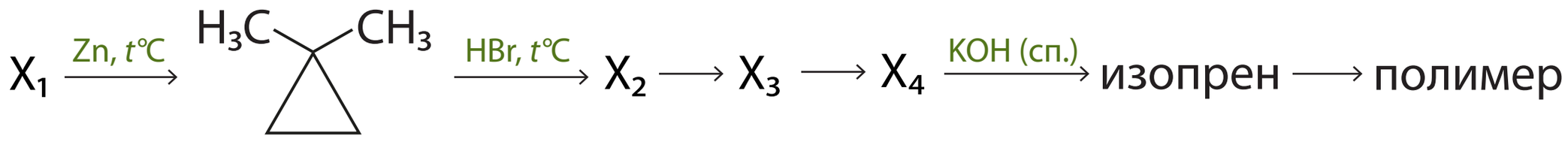
2 хлорэтан → бутан → бутадиен-1,3 $\xrightarrow{Br_2,\ 1,4\text{-прис.}}$ X_1 $\xrightarrow{H_2,\ кат.}$ X_2 $\xrightarrow{Zn,\ t°C}$ X_3

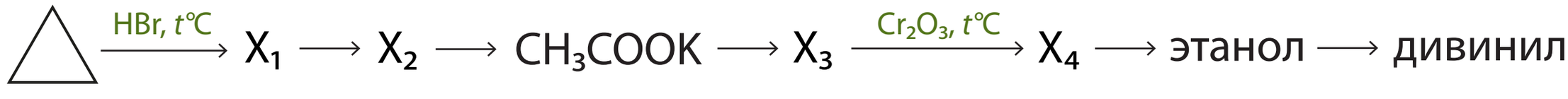
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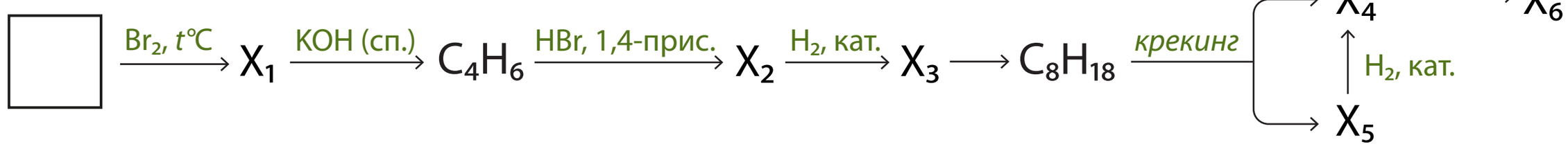
4 

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8 

9 

10 