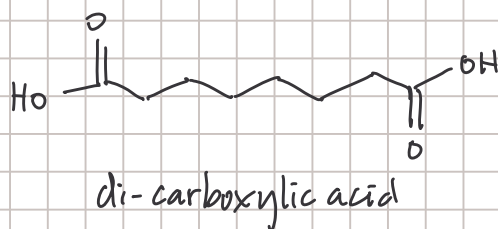
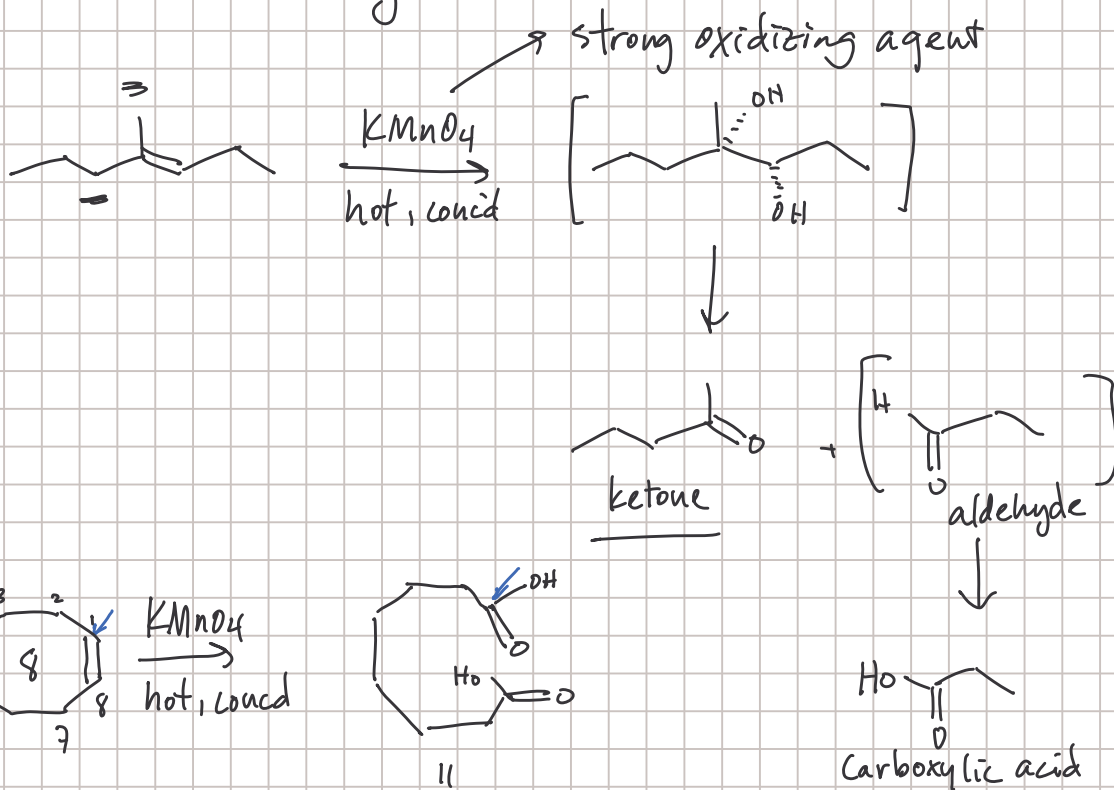


# Ch 8

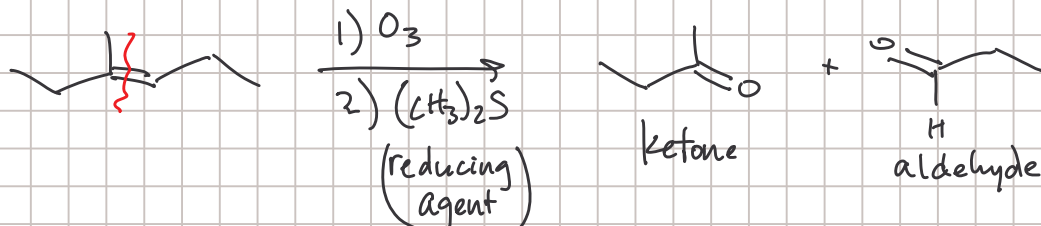
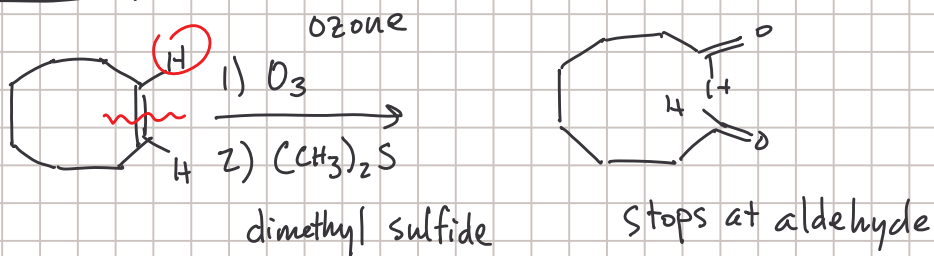
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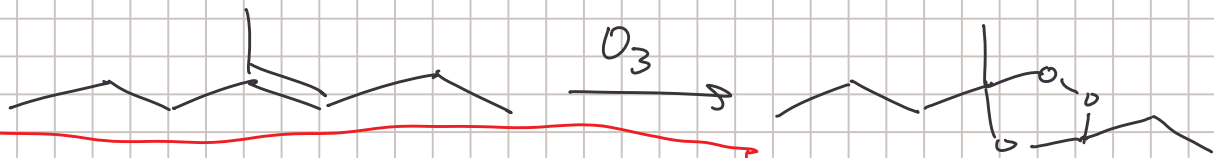
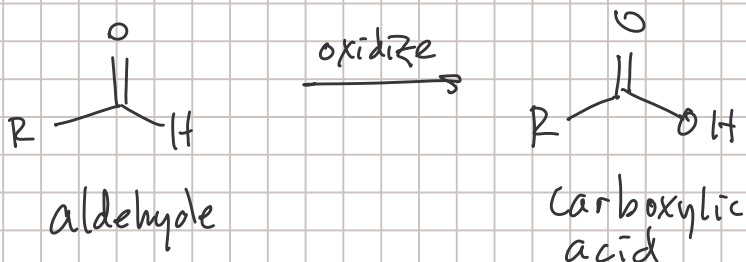
11/29/2005

## Oxidative cleavage



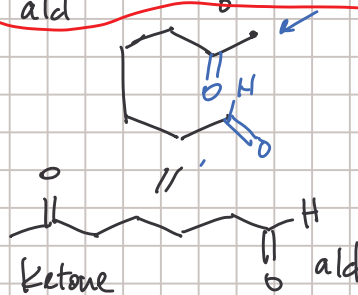
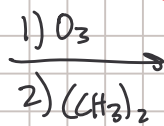
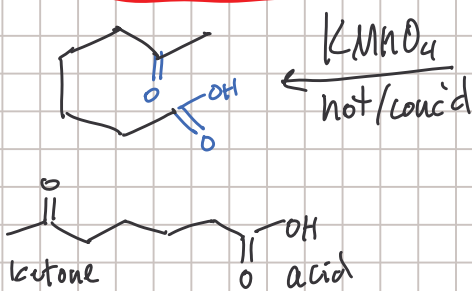
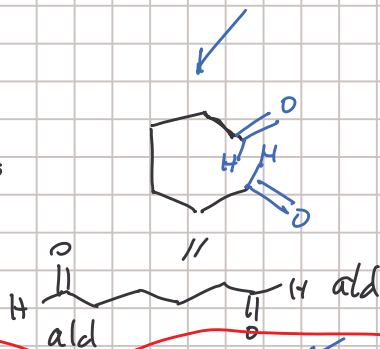
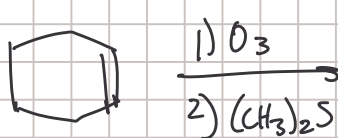
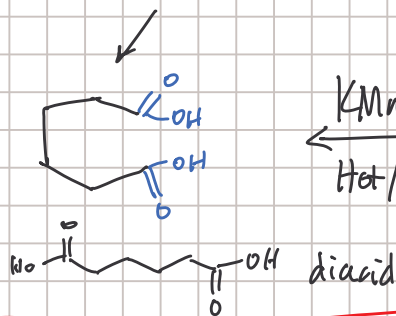
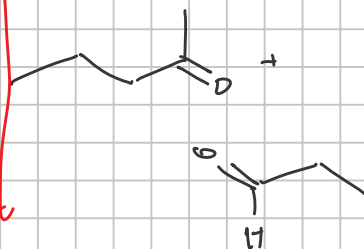
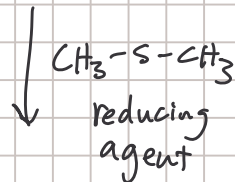
## Ozonolysis





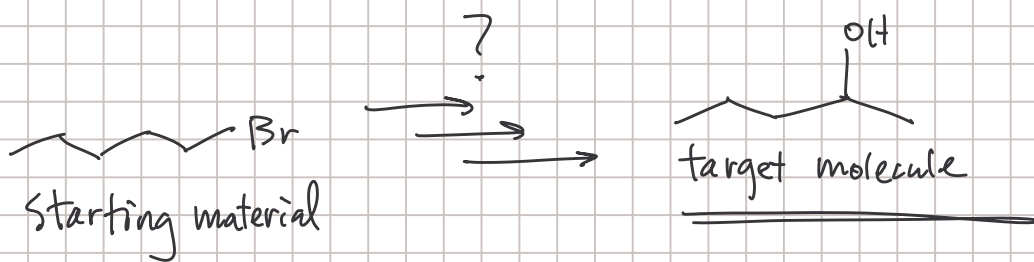
- | reaction   | Products                   |
|--|----------------------------|
| <ul style="list-style-type: none"> <li>oxidative cleavage (<math>KMnO_4</math>, hot/conc'd)</li> </ul>       | ketones + carboxylic acids |
| <ul style="list-style-type: none"> <li>ozonolysis (1) <math>O_3</math>, 2) <math>(CH_3)_2S</math></li> </ul> | ketones + aldehydes        |

molozonide intermediate



# Synthesis problems

usu. involve multiple successive reactions



Work backwards

start by determining which reaction(s) can create the target molecule

