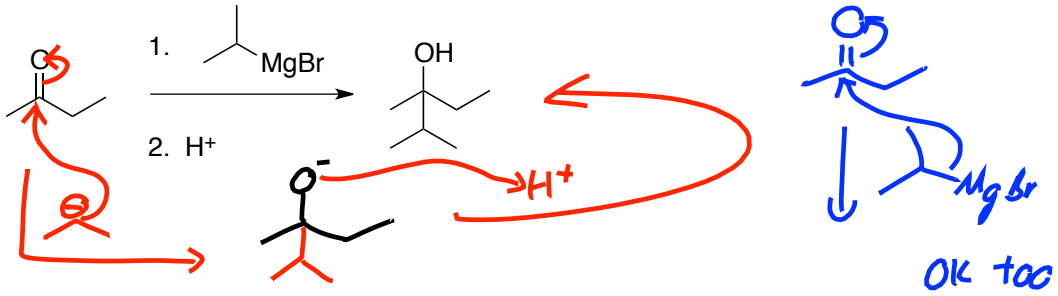
Organic Chemistry 2 Jasperse Test 1, Alcohol Chemistry

Draw Mechanisms for the Following Reactions

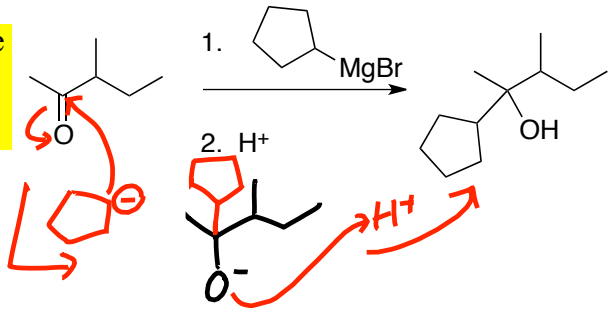
RMgBr + Ketone
1. Addition
2. Protonation

1.



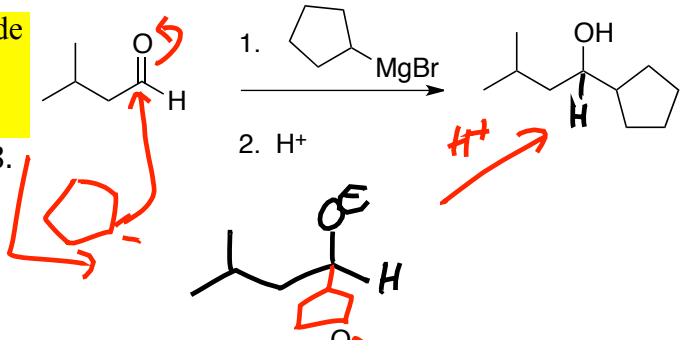
RMgBr + Ketone
1. Addition
2. Protonation

2.



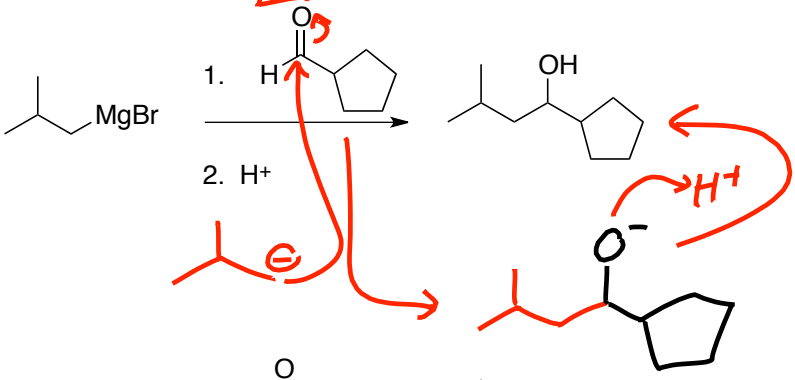
RMgBr + Aldehyde
1. Addition
2. Protonation

3.



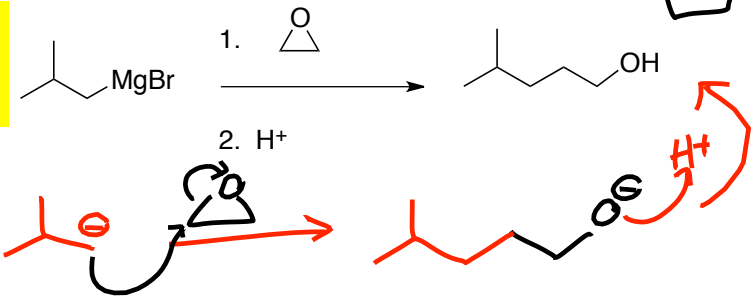
RMgBr + Aldehyde
1. Addition
2. Protonation

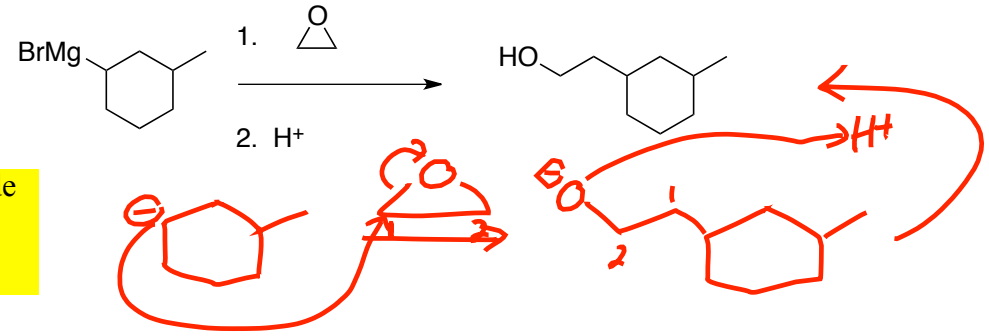
4.



RMgBr + Epoxide
1. Addition
2. Protonation

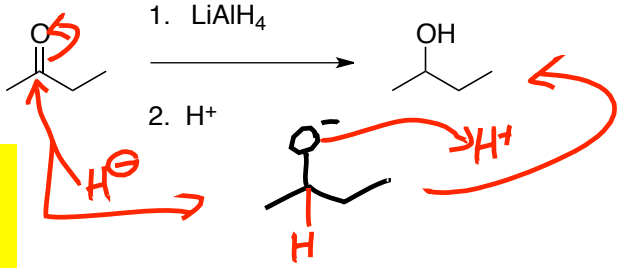
5.





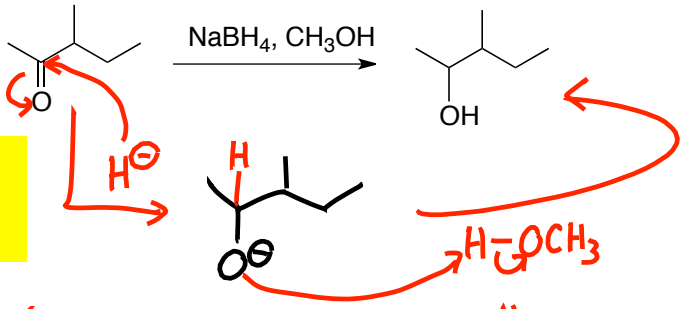
6.

RMgBr + Epoxide
1. Addition
2. Protonation



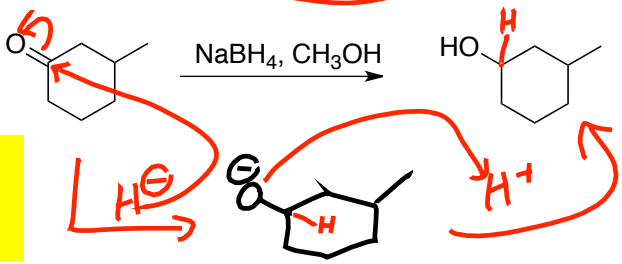
7.

Ketone + LiAlH4
1. Addition
2. Protonation



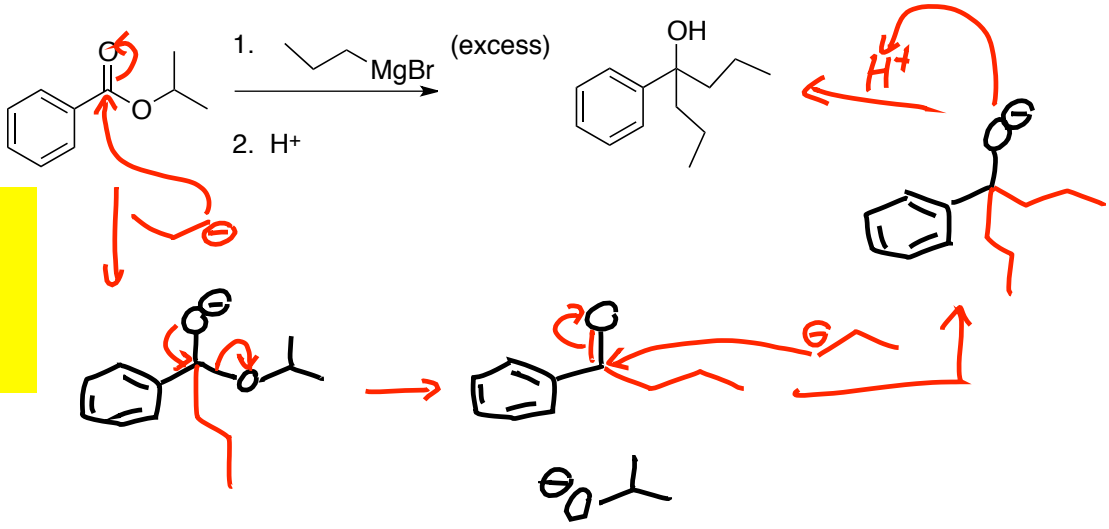
8.

Ketone + NaBH4
1. Addition
2. Protonation



9.

Ketone + NaBH4
1. Addition
2. Protonation



10.

RMgBr + Ester
1. Addition
2. Elimination
3. Addition
4. Protonation

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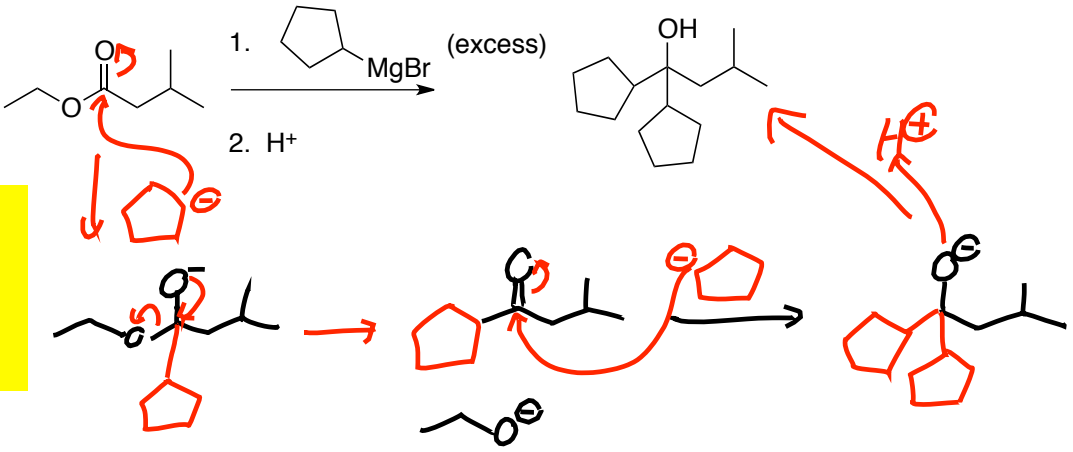
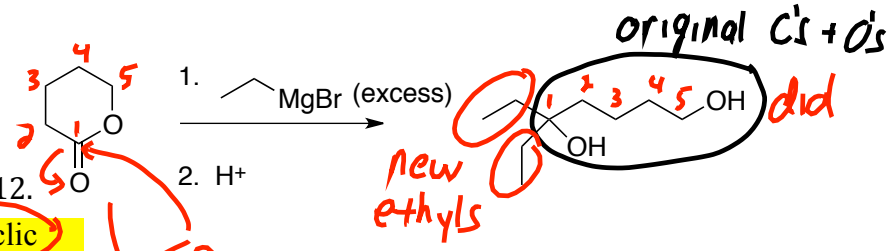
11.

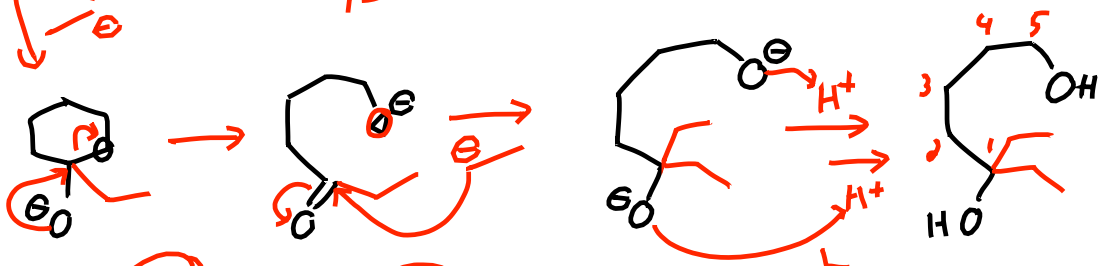


RMgBr + Ester
1. Addition
2. Elimination
3. Addition
4. Protonation

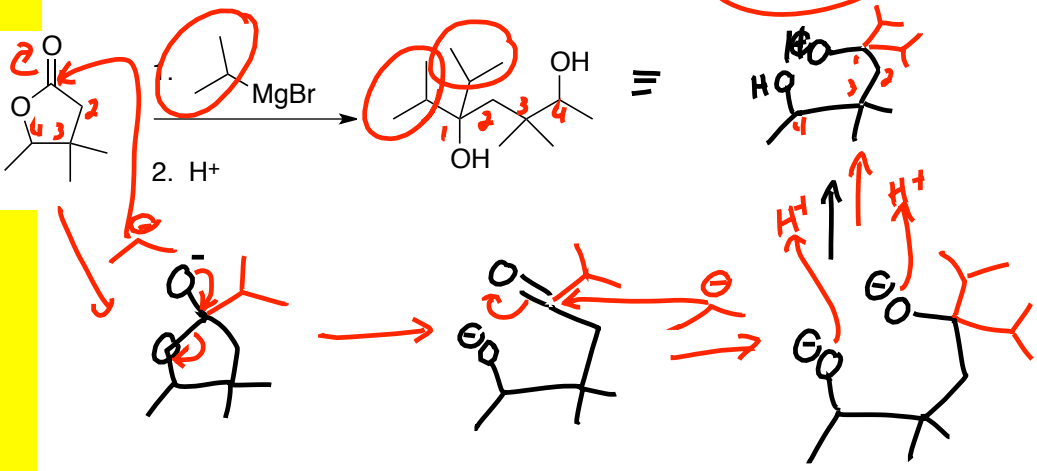
12.



RMgBr + Cyclic Ester
1. Addition
2. Elimination
3. Addition
4. Double Protonation



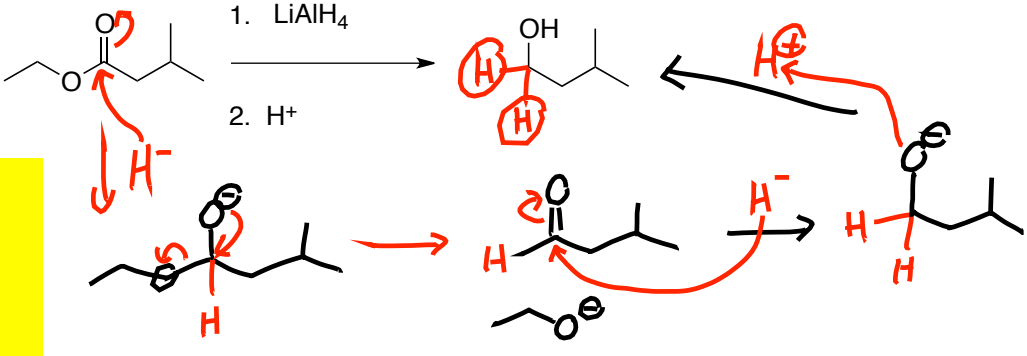
13.



RMgBr + Cyclic Ester
1. Addition
2. Elimination
3. Addition
4. Double Protonation

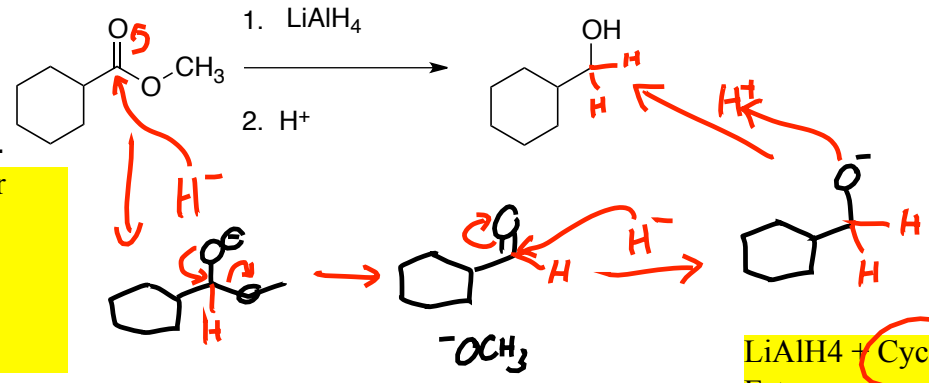
S
S
T
S

14.



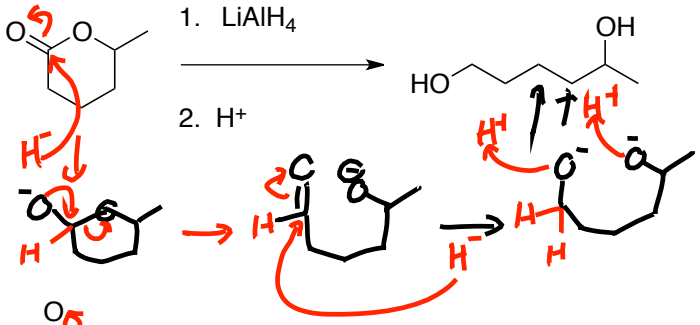
LiAlH4 + Ester
1. Addition
2. Elimination
3. Addition
4. Protonation

15.



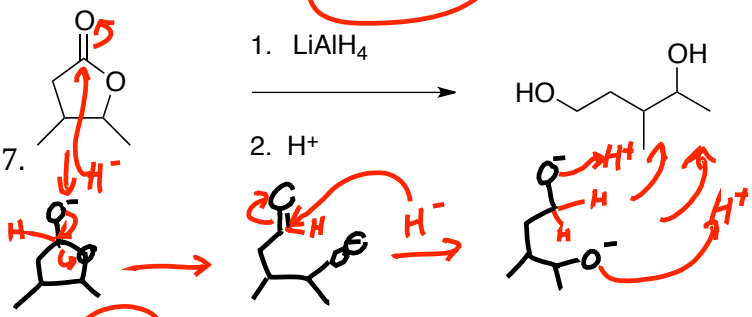
LiAlH4 + Ester
1. Addition
2. Elimination
3. Addition
4. Protonation

16.



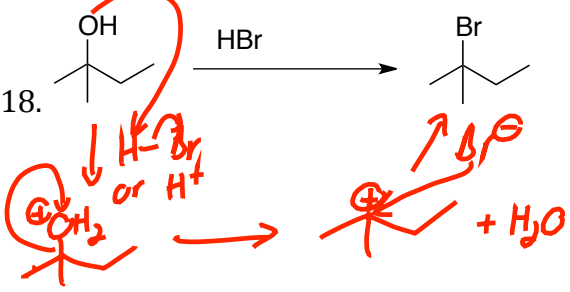
LiAlH4 + Cyclic Ester
1. Addition
2. Elimination
3. Addition
4. Double Protonation

17.



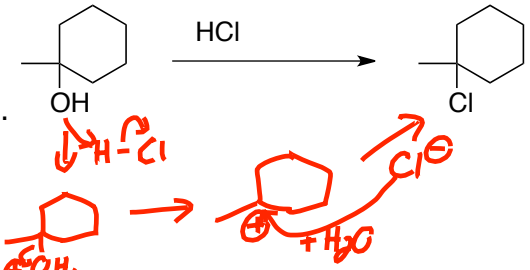
LiAlH4 + Cyclic Ester
1. Addition
2. Elimination
3. Addition
4. Double Protonation

18.



Tert Alcohol + HX to RX
1. Protonate
2. Loss of H2O
3. Add halide

19.



Tert Alcohol + HX to RX
1. Protonate
2. Loss of H2O
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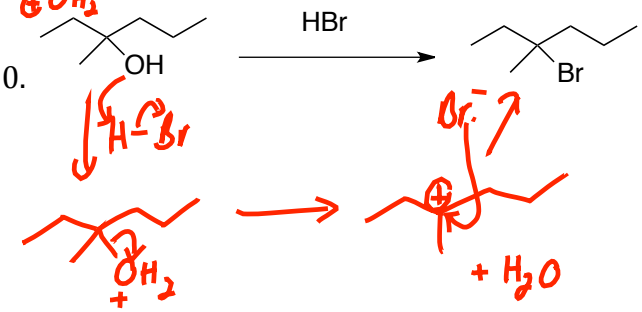
20.



Tert Alcohol + HX to RX
1. Protonate
2. Loss of H2O
3. Add halide