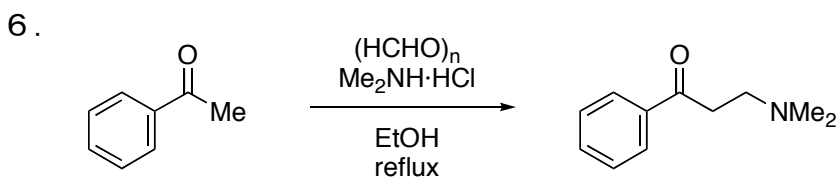
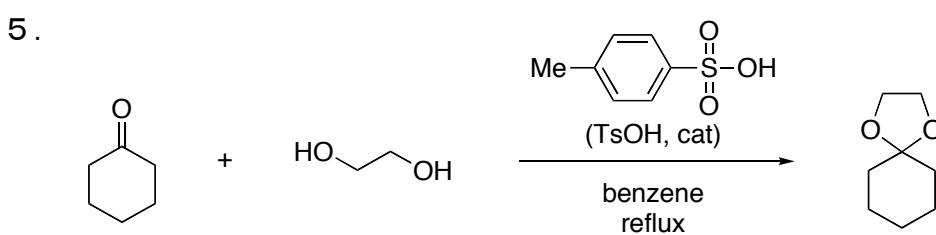
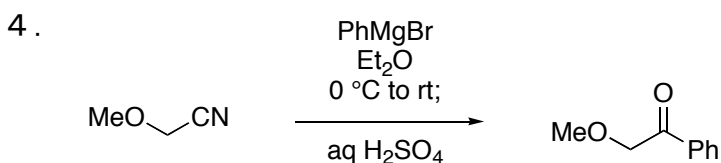
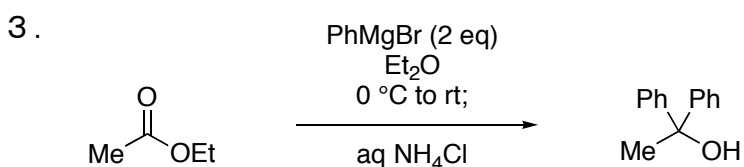
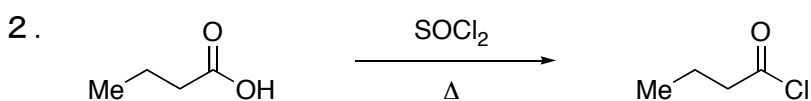
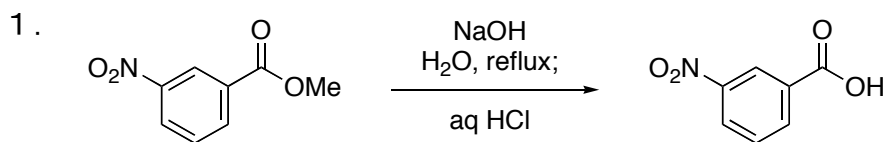


2021 年度 有機化学演習-1 (1/6)

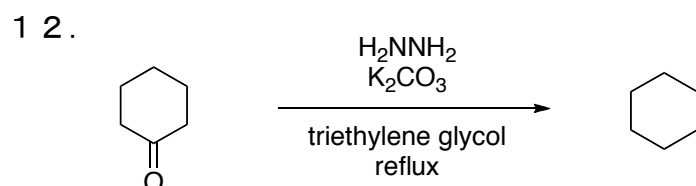
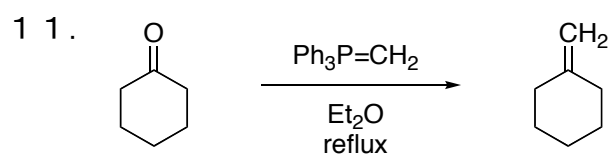
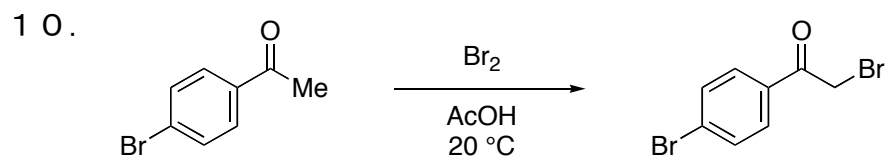
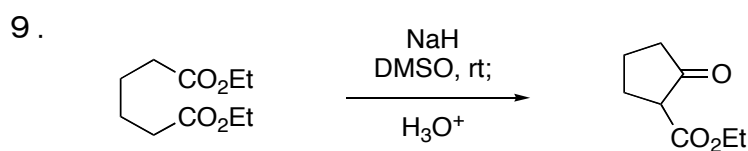
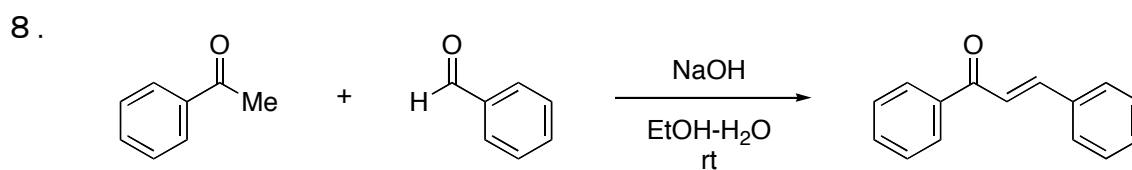
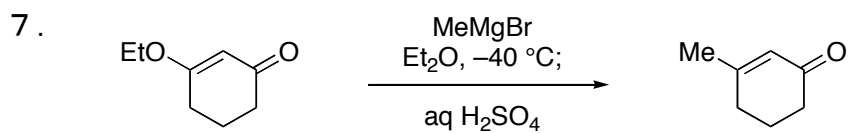
担当：吉村 文彦 (医薬品製造化学分野)

以下の反応の反応機構を電子の流れがわかるように、別紙に矢印を使って記せ。



2021 年度 有機化学演習-2 (1/13)

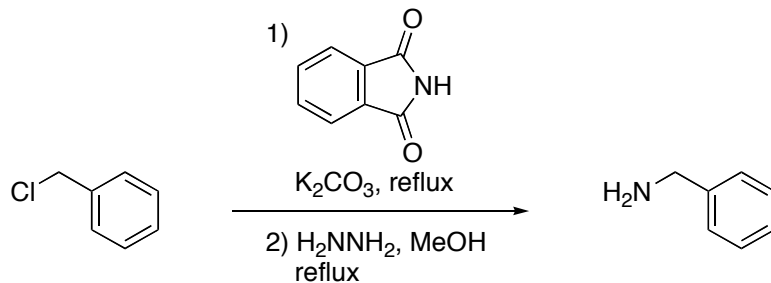
以下の反応の反応機構を電子の流れがわかるように、別紙に矢印を使って記せ。



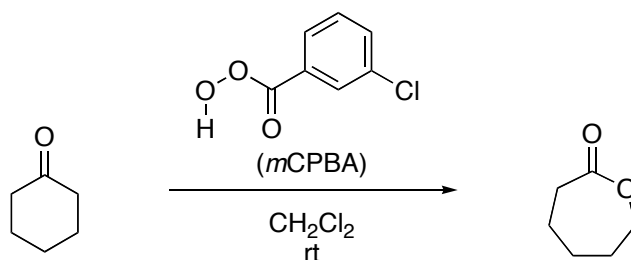
2021 年度 有機化学演習-3 (1/20)

以下の反応の反応機構を電子の流れがわかるように、別紙に矢印を使って記せ。

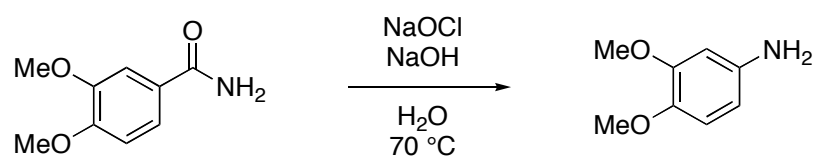
13.



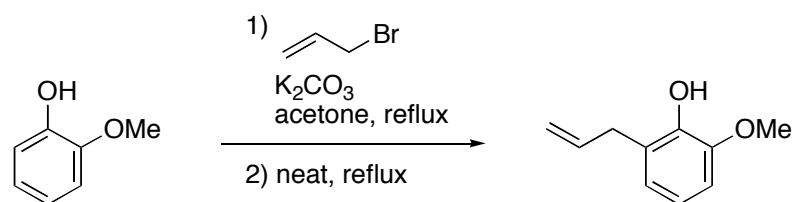
14.



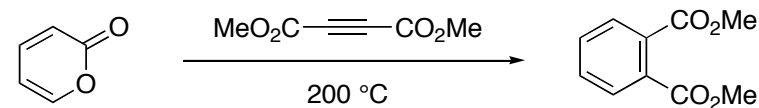
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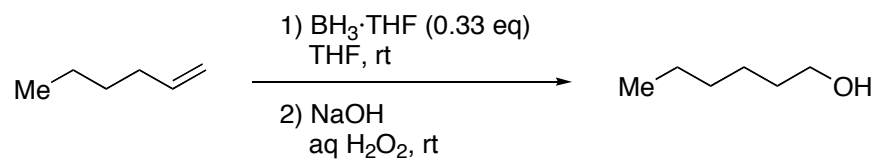
16.



17.



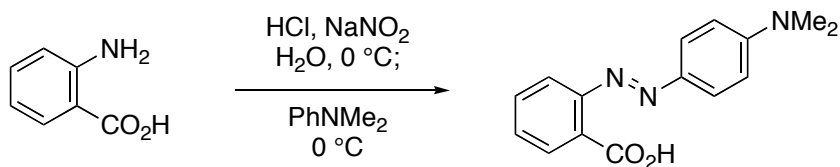
18.



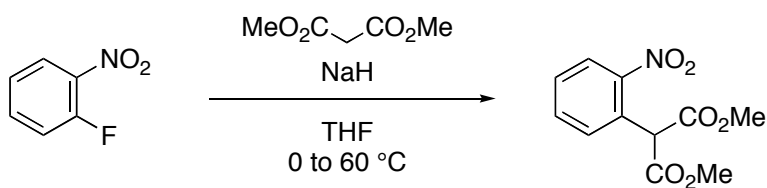
2021 年度 有機化学演習-4 (1/27)

以下の反応の反応機構を電子の流れがわかるように、別紙に矢印を使って記せ。

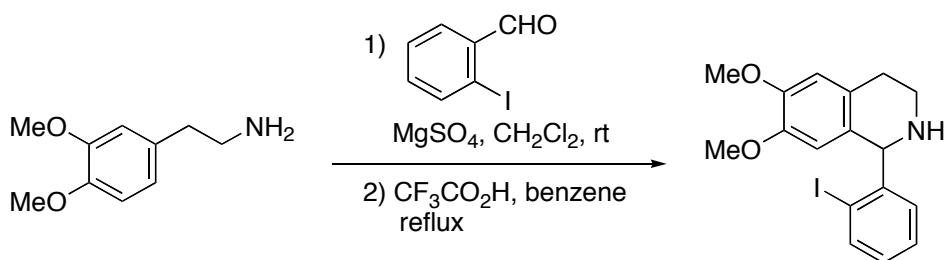
19.



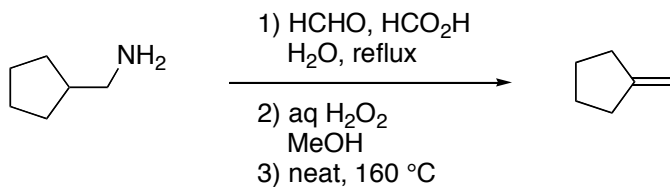
20.



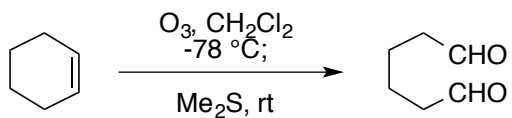
21.



22.



23.



24.

