

Course Introduction

Electrophilic Aromatic Substitution (EAS)

1/18/2023

Syllabus & Course Resources

[Syllabus link](#)

[“Living” course calendar link](#)

Office hours (in Park 169): Wednesday, 11:00am-12:30pm

Friday, 11:00am-1:00pm *not this week*

or by appointment (email me)

TA hours: TBD (will be shared ASAP)

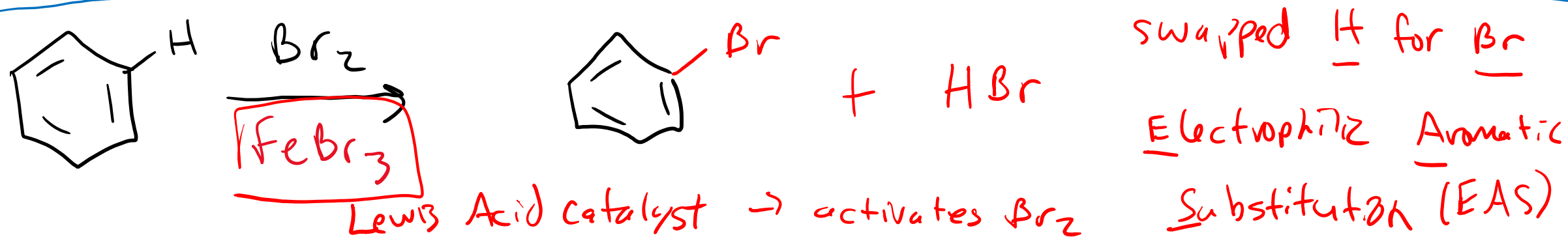
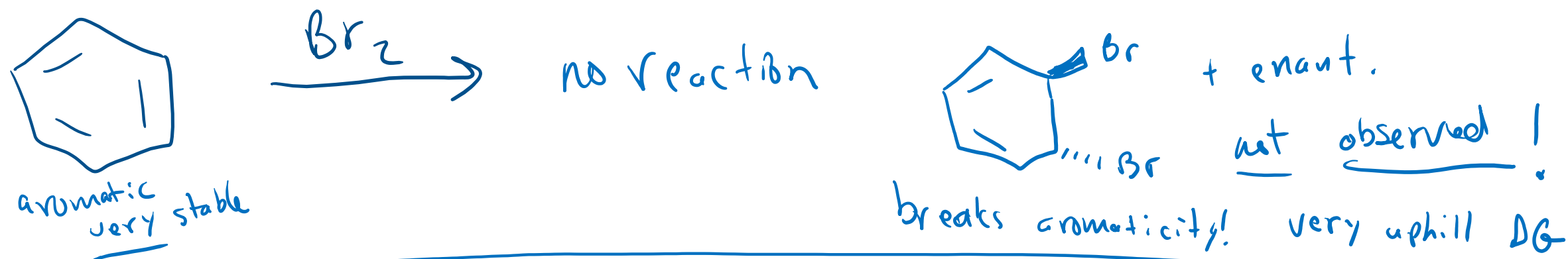
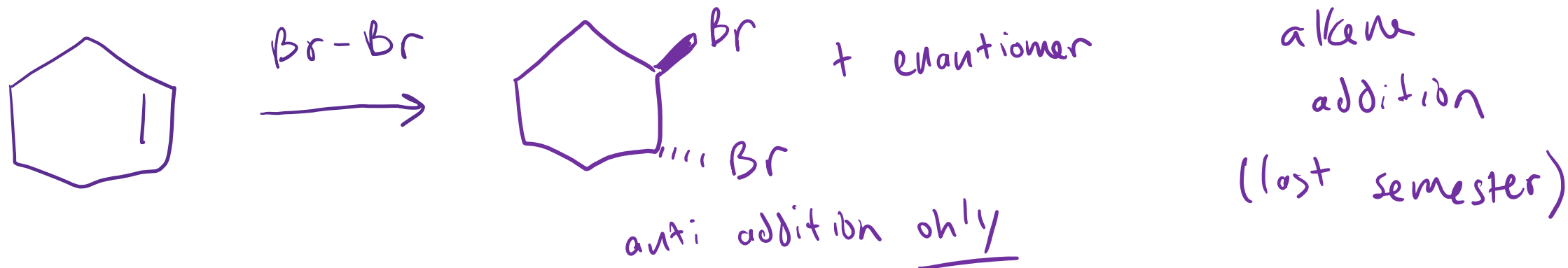
All of this is on Moodle!

Tips for success

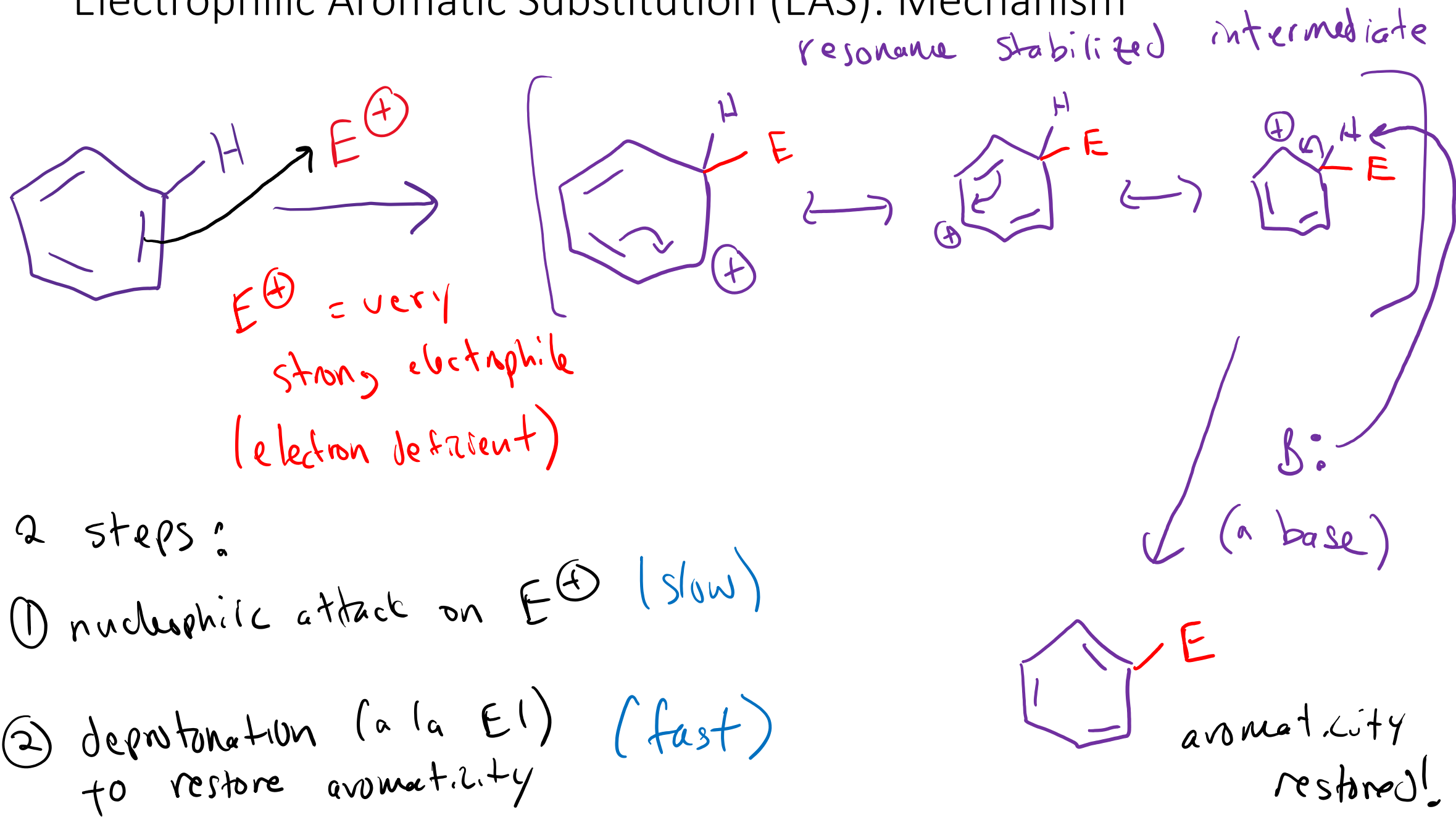
- Know how to do every assigned homework problem.
 - Unassigned problems are good extra practice (i.e. #54 is assigned, #55 is most likely helpful too).
 - “Second Language” textbook companion also has extra practice problems.
- Use all the resources at your disposal.
 - Office hours, TA’s, textbook, email/talk to me!
- Study with others.
- Practice consistently & effectively.
 - “Retrieval Practice” versus re-reading/reviewing
- Come to class prepared.
- Be active in class.

Electrophilic Aromatic Substitution (EAS)

Text: 18.1

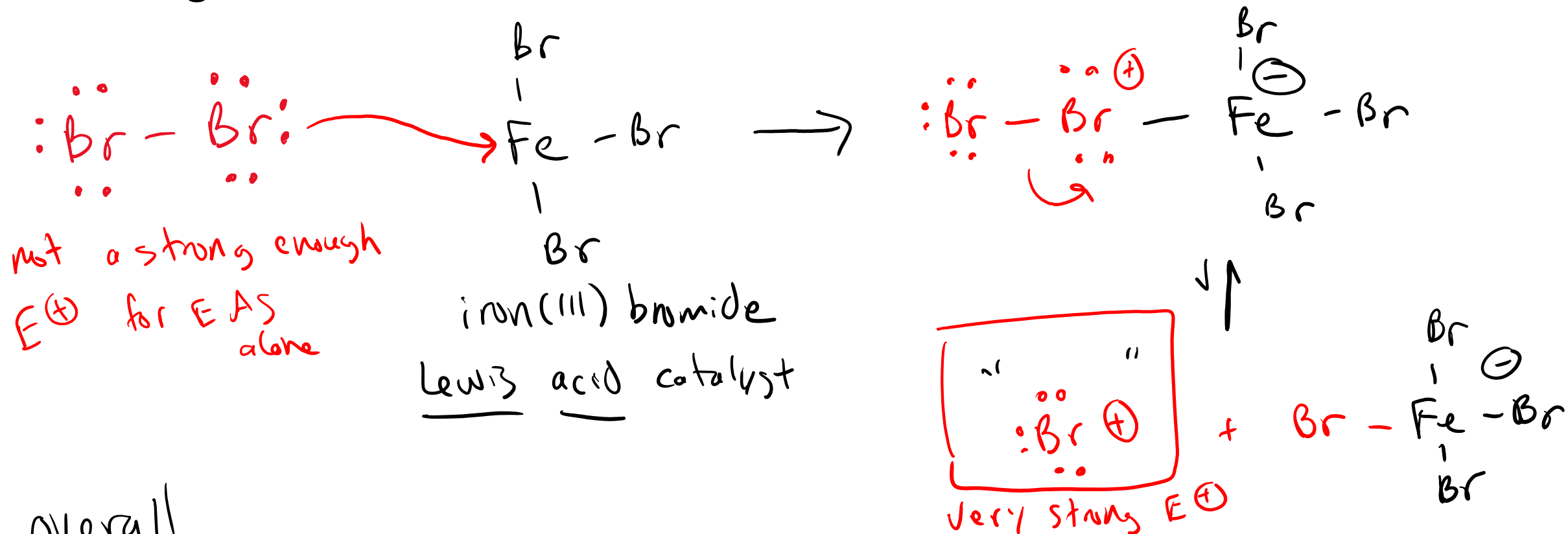


Electrophilic Aromatic Substitution (EAS): Mechanism

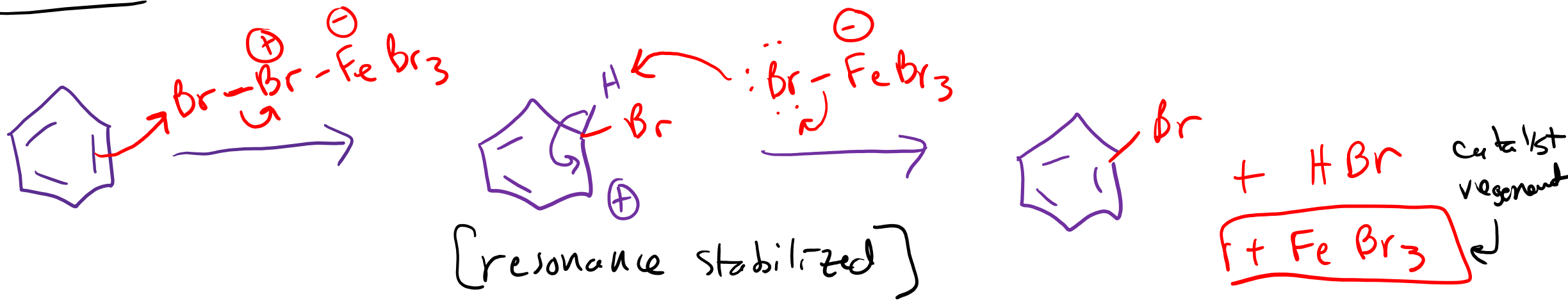


Halogenation of Benzene

Text: 18.2

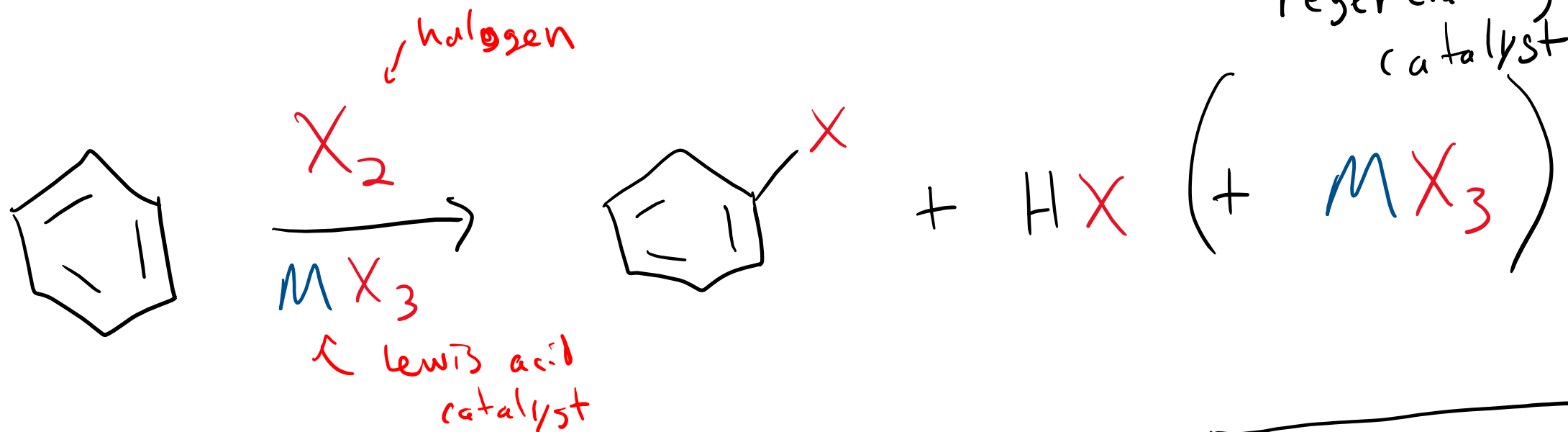


Overall



Halogenation of Benzene

More generally:



X = Cl or Br not F or I!

M = Fe³⁺ or Al³⁺

EAS always requires very strong electrophile (often must be generated in solution)