Today

Next Class

Final

Aromaticity and Electrophilic Aromatic Substitution Section 18.11 - 18.15

EAS Bromination Lab

Please hand in reworked test 3.

Our Final is Scheduled for May 6 at 12:20.

Reworked test 1 and 2 will be available for pickup tomorrow.

Review Session Thursday, May 5 in Wilson 130 at 7:30.

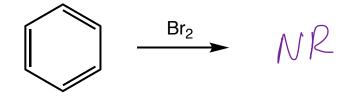
Full credit will be granted to Chap 18 Homework Questions that we haven't covered in class.

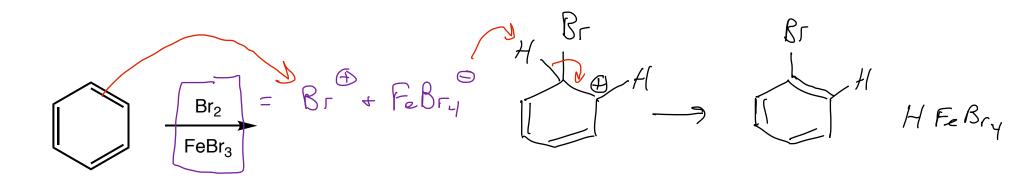
Graded Wednesday lab reports available for pick up.

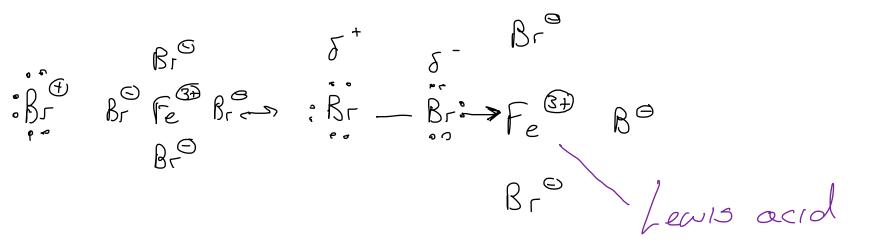
Substituents that Are Activating towards Electrophilic Aromatic **Substitution EAS Bromination Lab** e donation This is Π as compared to H Ø NR_z NR₂ ® NRz iR_z ~ O J activating More OR less activating H N R C less +1 1 € _N__ R R J 5-2 H /D " NHz " acterating R G

Section 18.12

Bromination







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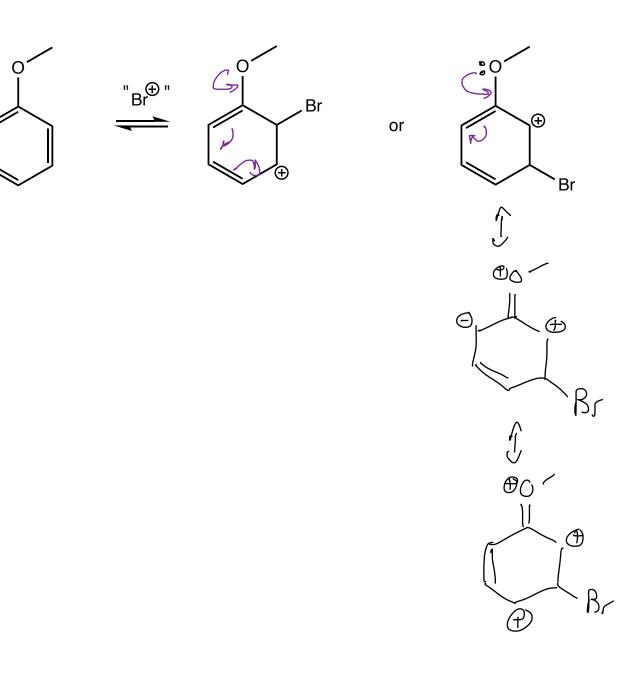
Br

 \oplus_{o} /

Bi

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or



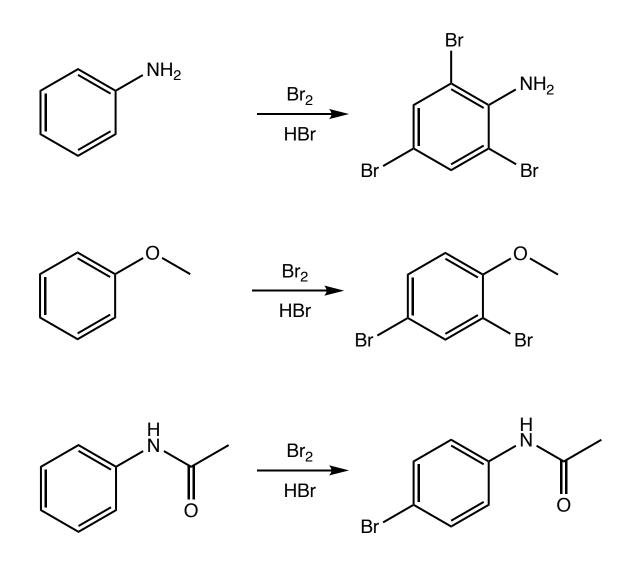
Section 18.3

 Br_2 HBr S^+ $S^ S^+$ S^- Br - Br · · · H - Br activated benzene rings dont require as strong an acid

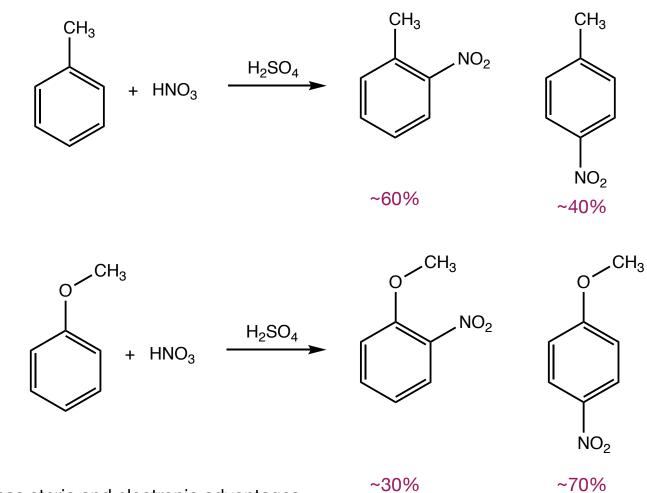
How Activating Are the Substituents?

Section 18.12 EAS Bromination Lab

Adding a Br deactivates the benzene ring



o:p Ratios (Summary)



The *para* position has steric and electronic advantages The *ortho* position has a statistical advantage Mixtures of *o* and *p* isomers typically result