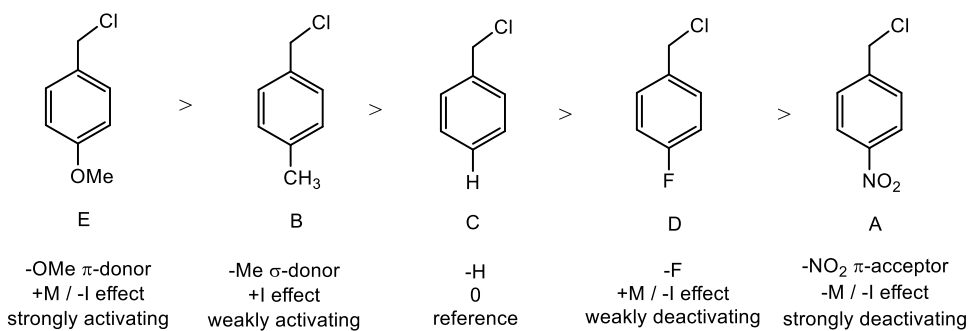
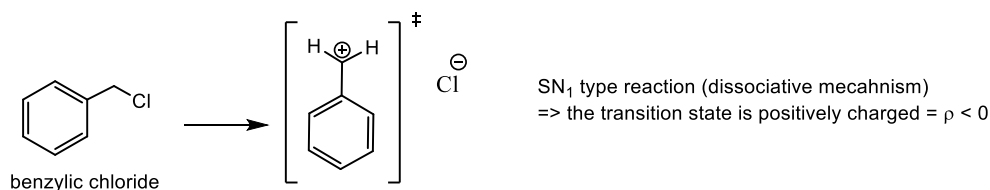



FRO-III 2025 QUESTIONS OF THE WEEK 5 – SOLUTIONS

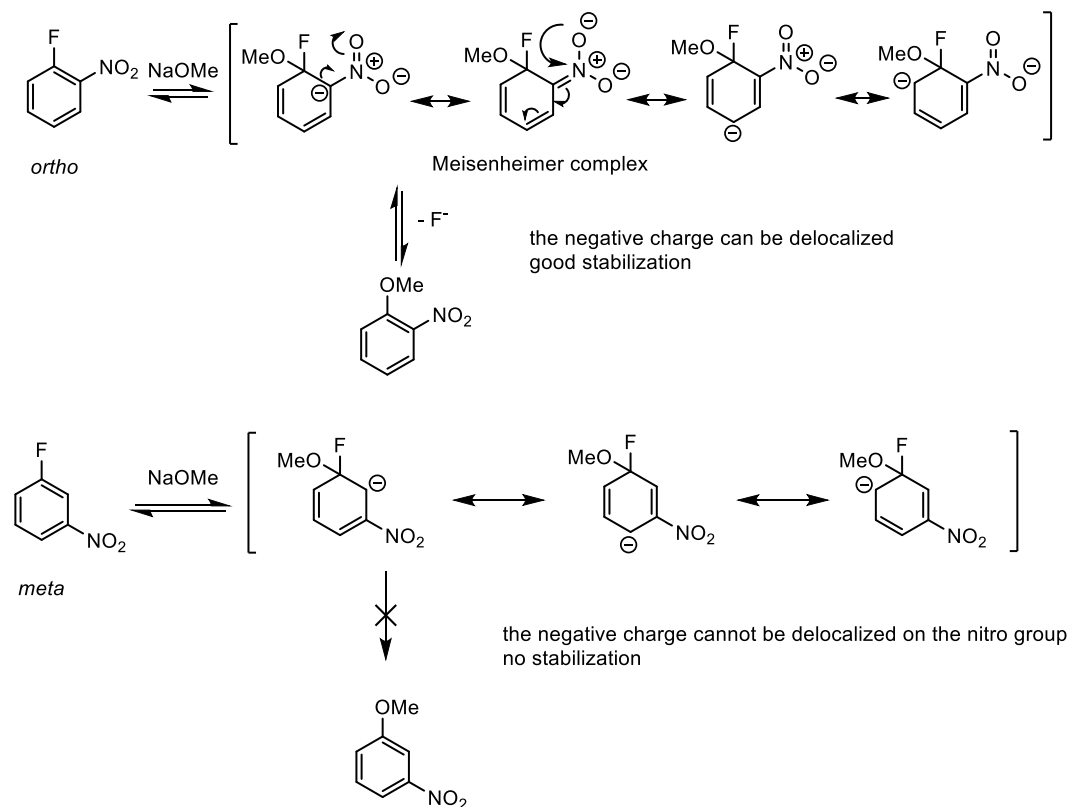
1)





 Rate of reaction decreases, because stabilization of the positive charge (carbenium ion) decreases.

2)



The reaction is a **nucleophilic aromatic substitution** involving an **addition / elimination process**.

A is more likely to react than B because its **Meisenheimer complex contains one additional mesomeric form** involving the **delocalization of the negative charge on the oxygen** of the nitro group.