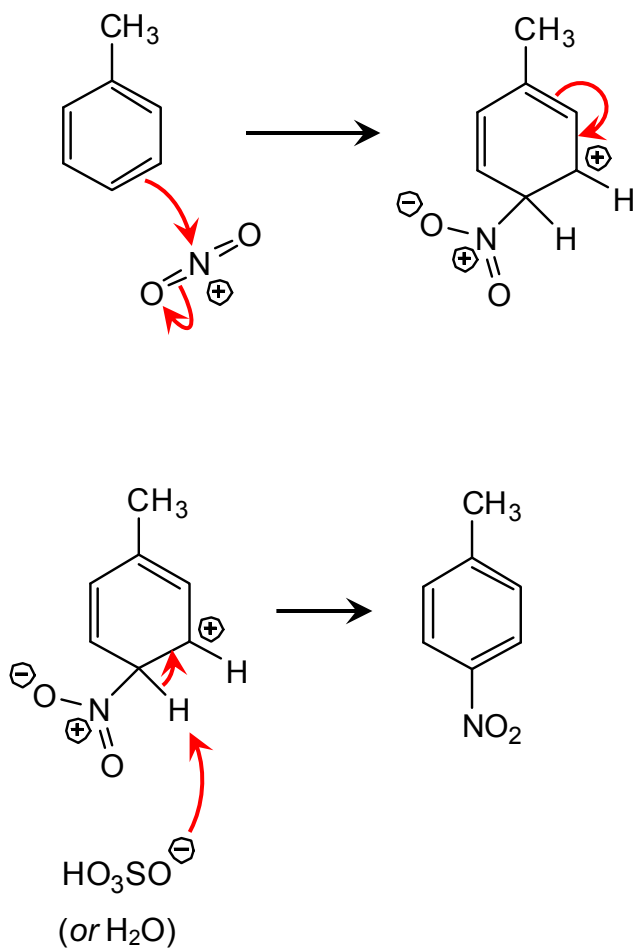


In-Class Exercise Solutions  
Electrophilic Aromatic Substitution Mechanisms

This resonance structure places the positive charge at the 3° carbon. So, as we discussed for the *ortho*-addition intermediate we discussed in class, this cation is stabilized by hyperconjugation, and the *para*-substitution product is favored.