1. Which is a stronger base?

\[ \text{a} \quad \text{or} \quad \text{Here, a CH}_2 \text{ separates the non-bonded electrons from the phenyl ring. Resonance is not possible.} \]

\[ \text{aromatic amine is less basic because the non-bonded electrons on nitrogen are conjugated with the phenyl ring.} \]

\[ \text{b} \quad \text{or} \quad \text{Hint: make a model and think about the geometry of the lone pair relative to the benzene ring} \]

\[ \text{Lone pair is oriented} \]
\[ \sim \text{ perpendicular to the } \pi \text{ system of the benzene ring} \]
\[ \text{Delocalization is impossible!} \]
4. Propose an arrow pushing mechanism
3. Propose an arrow pushing mechanism

\[
\begin{align*}
\text{PPh}_2\text{O} & \quad + \quad \text{H}_3\text{C}\text{N}^+\text{N}^-\text{N}^+\text{N}^- \\
\text{H}_2\text{O} & \quad \rightarrow \quad \text{H}_3\text{C}\text{H}-\text{N} \quad + \quad \text{O}_x\text{PPh}_2
\end{align*}
\]