Chapter 23: Amine Reactions II Worksheet

BASICITY
Number the following in decreasing order of basicity (#1 = most basic)

benzylamine          ammonia          aniline          p-toluidine
\[ \_ \quad \_ \quad \_ \quad \_ \]

REATIONS
1. aniline + ethyl bromide →

2. benzenesulfonyl chloride + diethylamine →

3. aniline + Br₂(aq) →

   (xs) CH₃I, Ag₂O, heat

4. sec-butylamine → → →

5. \( n \)-butylamine + ClCH₂COONa (sodium chloracetate) →

6. N,N-dimethylaniline + NaNO₂ → \( H^+ \) (HONO)

   \( CH - N - CH₃ \)