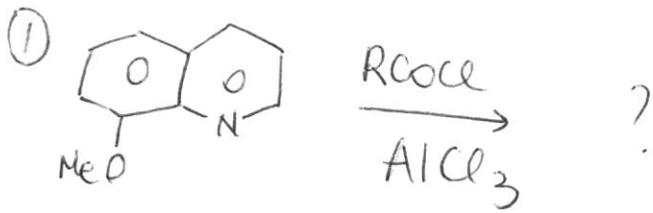
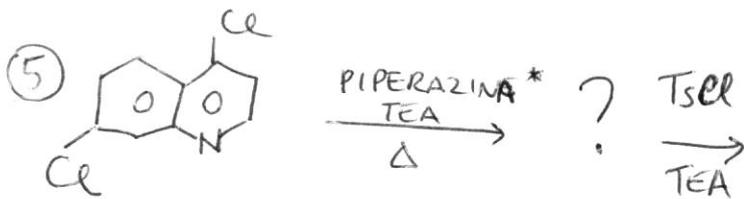
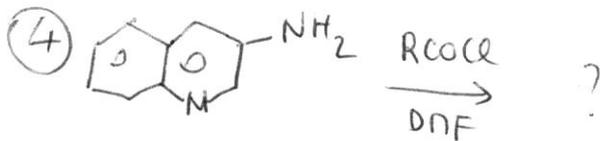
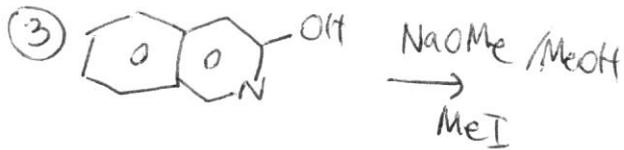
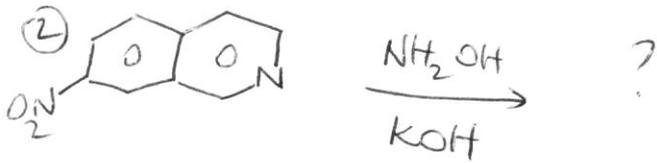


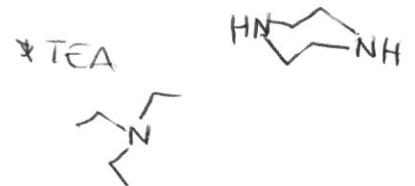
ESERCIZI φ e ISOP:



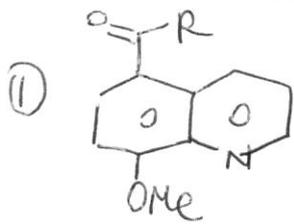
ATTENZIONE!



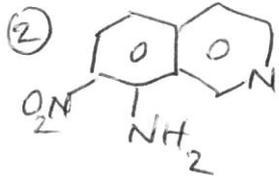
* piperazina



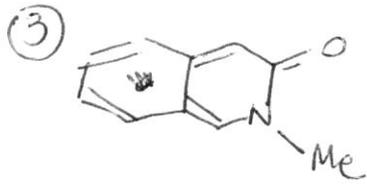
SOLUZIONI I



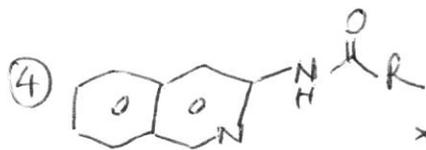
perché:
 - N disattivato (forma complesso di Lewis)
 - OMe attivante in PARA



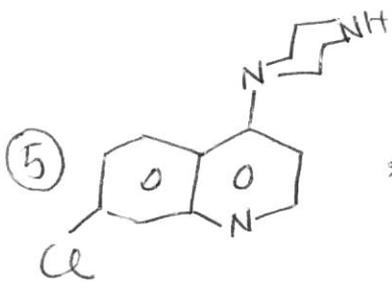
perché S_NAR:
 * NO₂ FORTE EFFETTO ATTIVANTE (e⁻ sink)
 * C8 e' in ORTO al NO₂ e anche reattiva; + vicina ad ~~N~~ di C6
 ↓
 in pos. 2



perché:
 * CONDIZ. BASICHE FAVORISCONO TAUTOMERIA VERSO ISCHINOLONE
 * base favorisce deprotonaz. N
 * segue alchilazione su N (con RX)



* NU' di N in posizione 2 e' minore rispetto a PIRIDINA PER DELOCALIZZAZ. MAGGIORE SU 2 ANELLI



* POSIZ. 4 PIU' REATTIVA, IN PARA a N in pos. 1 SU CUI POSSO DELOCALIZZ. e⁻ derivanti da attacco NU' (piperazina)

