Group Meeting Problems - July 8, 2008

Please provide a reaction mechanism for the following problems:

1.

$$\begin{array}{c|c} & & & & \\ & & & \\ NC & & \\ NH_2 & \\ \hline KOH & \\ \hline DMF, rt & \\ \hline 95\% & \\ \hline \end{array}$$

V. J. Ram, et al., Tetrahedron Lett., 48, 7982 (2007)

2.

Y. Ichikawa et al., J. Chem. Soc., Perkin Trans. 1, 1449 (1994)