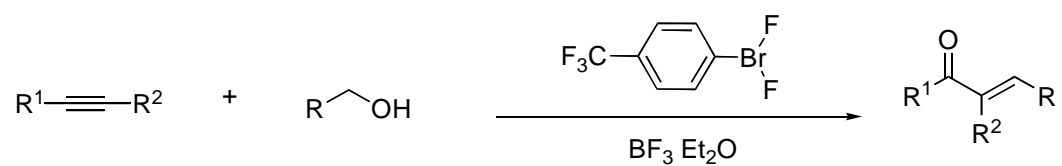Group Meeting Problems – June 23, 2009

Propose a mechanism for the following transformations:

1.

$R^1\!\!\equiv\!\!R^2$ + $R\diagdown O\diagup OH$ $\xrightarrow[\text{BF}_3\text{ Et}_2\text{O}]{\text{F}_3\text{C}\diagup\diagup\diagup\text{Br}(F)(F)}$ $R^1\diagdown C(=O)\diagup\diagdown R$ with R^2

2.

SnCl$_2$, DCM, 0 °C