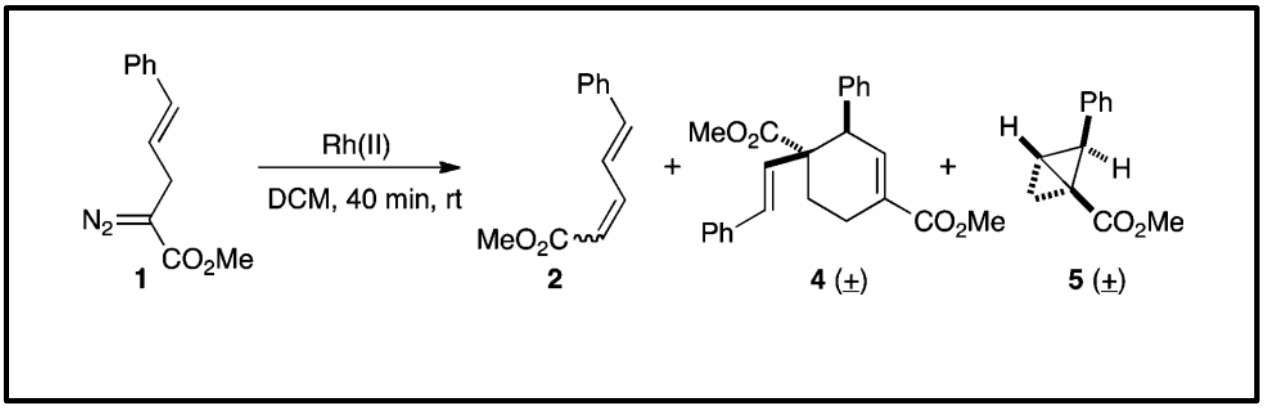
Joint group meeting problems

March 5th 2015

1. **When the following reaction was carried out using $Rh_2(OPiv)_4$ (1 mol%) as the Rhodium source, a mixture of three different products (2,4, and 5) were isolated (10:10:80 NMR ratios respectively). Propose plausible mechanisms for formation of all three products.**



2. **Propose a plausible mechanism for the following transformation**