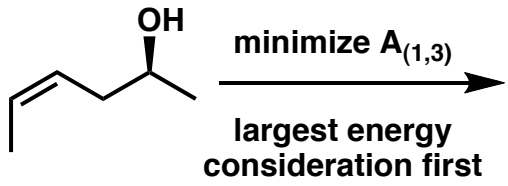
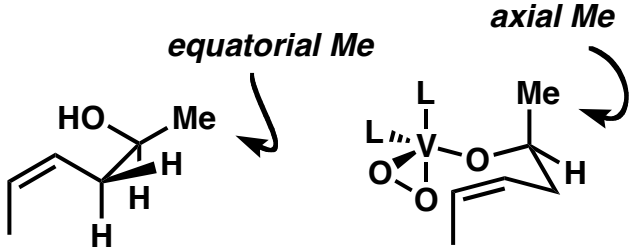
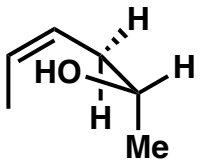
Homoallylic Directed Epoxidation

$VO(acac)_2$, TBHP, CH_2Cl_2, 0 °C

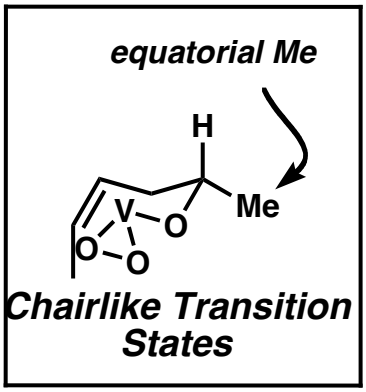




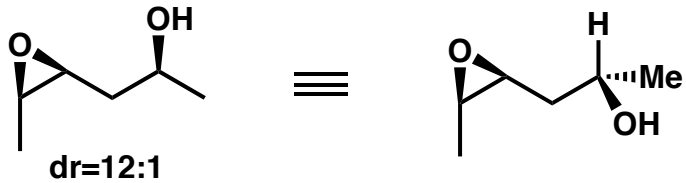
$A_{(1,3)}$ strain is the same, so 2° effects considered



Boatlike Transition States

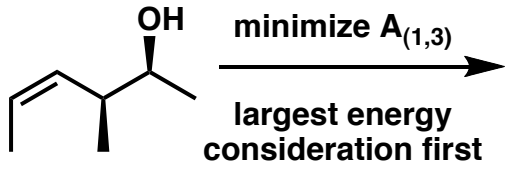


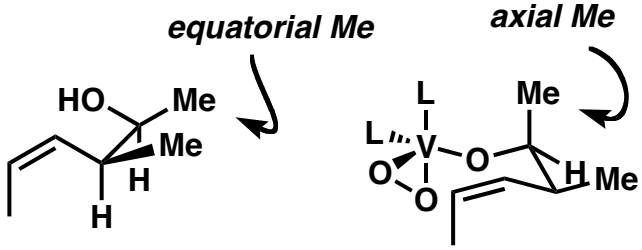
Chairlike Transition States



dr=12:1

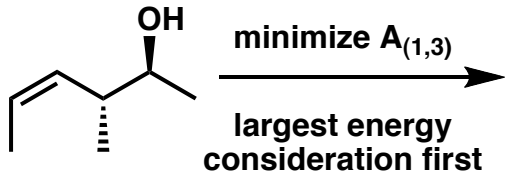
NOTE:

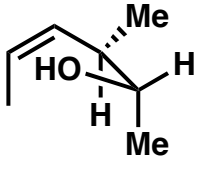




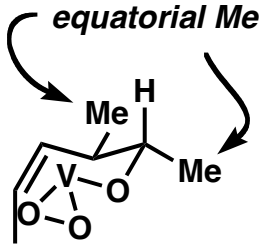
favored by $A_{(1,3)}$ strain

MISMATCH CASE!





favored by $A_{(1,3)}$ strain



MATCH CASE!