













**Case I: More stable conformer reacts more quickly**

**Case III: both conformers react at the same rate**

**Case II: Less stable conformer reacts more quickly**

$$\frac{[\text{D}]}{[\text{C}]} = \frac{k_2}{k_1 K} = \frac{e^{-\Delta G_2^\ddagger/RT}}{e^{-\Delta G_1^\ddagger/RT} e^{-\Delta G/RT}} = e^{-\frac{\Delta\Delta G^\ddagger}{RT}}$$



