

Chemistry 2301

In-Class Exercise: Stereoselectivity of E2

Each of the diastereomeric 2,3-dibromobutanes below reacts with NaOCH_3 via E2 elimination to give a different alkene product. (For this problem, consider only elimination at the C2-C3 bond in the middle.) For each reaction,

- Re-draw the starting material so that the proton that is being removed and the leaving group are *anti*- to one another. Newman projections might help you here. (Or they might not—you might not need them.)
- Draw the product that would result from the E2 elimination.

