Chemistry 1310/2370 - Synthetic Organic Chemistry

Problem Set 2: Due Date 10/7/09

Name:

- A. Read Godenschwager, P. F.; Collum, D. B., "Lithium hexamethyldisilazide-mediated enolizations: Influence of triethylamine on E/Z selectivities and enolate reactivities." *J. Am. Chem. Soc.* **2008**, *130*, 8726-8732, and answer the following questions:
 - a) Draw a chair-conformation for transition state 4.

b) In transition state **4**, is the equatorial or the axial hydrogen removed by the base? Use a suitable drawing to support your answer.

c) Draw the transition s steric interactions.	tate 3 in an ana	logous 3-dimensi	onal fashion, t	rying to minimize
d) There is a curious reattention to my lecture (and the				if you paid close

e unlike w) Can you e hat we disci	explain this s ussed for the	eemingly con THF/HMPA e	tradictory re nolization wi	sult using a th LDA?	transition	state mode	el not