

**CH0310, ORGANIC CHEMISTRY I**  
**Professor Dennis P. Curran**  
**email: curran@pitt.edu**

Quiz 6, Take home, due midnight Friday, Feb. 20, 2009

Submit the quiz in pen, or Xerox/fax/scan your pencil copy

Hand in before/after class  
Drop off at 1101 CSC (before 5 pm)  
Fax to 412-624-9861 (till midnight)  
Email to lynnec@pitt.edu (till midnight, pdf file only)

**S<sub>N</sub>2 Reactions**

To prepare:

- read Chapter 6
- review lecture notes for February 13, 16 and 18
- Do problems 34, 36, 39, 40, 43 and 49 in Chapter 6

You need to be able to predict the products of typical S<sub>N</sub>2 reactions. You need to be able to identify the components of the reactions (nucleophile, electrophile, solvent, substitution product, leaving group). You need to understand the trends affecting the reactivity of these components.

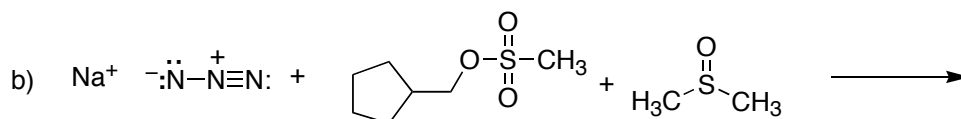
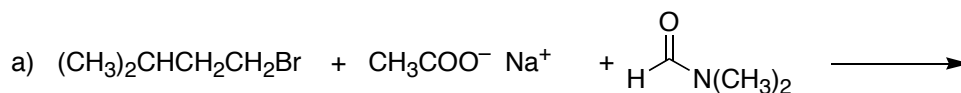
*The quiz is on the other side*

NAME

SIGNATURE

### $S_N2$ Reactions

1) Show all the products of the following  $S_N2$  reactions. (3 points)



2) For each of the reactions in Problem 1, indicate the nucleophile, the electrophile, the solvent, the substitution product and the leaving group. (3 points)

3) For each pair of reactions below, indicate which one is faster and briefly explain why. (4 points)

