## Chem 41c Quiz 4 <br> Stoltz, Spring 2011 <br> May 6, 2011 <br> Due May 6, 2011 10:00 AM

You have 30 min to take this quiz. It is closed note, closed book, and no collaboration is allowed. Please do not discuss the quiz with anyone until you receive it back graded. Place a box around your answers. There is no partial credit. The quiz is worth 25 out of 20 points.

Name $\qquad$

## Chem 41c Quiz 4

## Quiz Grade

$\qquad$
Stoltz, Spring 2011
May 6, 2011
Due May 6, 2011 10:00 AM
You have 30 min to take this quiz. It is closed note, closed book, and no collaboration is allowed. Please do not discuss the quiz with anyone until you receive it back graded. Place a box around your answers. There is no partial credit. The quiz is worth 25 out of 20 points.

Predict the products of each reaction. (5 points each)
1.


1. NaOEt, EtOH
$\xrightarrow[\substack{\text { 2. mild acid work-up } \\ 0^{\circ} \mathrm{C}}]{\mathrm{PhH}, 80^{\circ} \mathrm{C}, 6 \mathrm{~h}}$
2. 


3. mild $\mathrm{H}_{3} \mathrm{O}^{+}$work-up
3.

1. LDA, THF
2. 



4. Circle the compound with the most acidic proton.




5. Provide a plausible mechanism for the following transformation (TA's will give partial credit).



