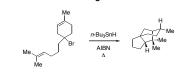
## Massachusetts Institute of Technology

## Question 1.

Provide a *detailed* mechanism for the following transformation. Identify the key steps.



Chemistry 5.43

March 21, 2007

Professor M. Movassaghi

Exam #2

Question 1	/15 points
Question 2	/10 points
Question 3	/20 points
Question 4	/20 points
Question 5	/15 points
Question 6	/20 points

Total \_\_\_\_/100 points

- NAME: \_\_\_\_\_
- Signature:
- T.A.:

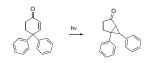
There are 6 pages (2-7) of questions in this exam.

1 of 9

2 of 9

Question 2.

Provide a *detailed* mechanism for the following transformation. Identify the key steps.



Question 3.

Provide the needed reaction conditions and a *detailed* mechanism for the following transformation. Identify the key steps.

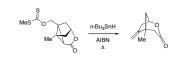


Question 4.

Provide a *detailed* mechanism for the following transformation. Identify the key steps.

Question 5.

Provide a *detailed* mechanism for the following transformation. Identify the key steps.



Question 6.

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Provide a *detailed* mechanism for the following transformation. Identify the key steps.

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