## **Problems**

## March 3<sup>th</sup> 2009

1) Provide a mechanism for the conversion 2 to 4 and identify the structure of intermediate 3.

MeO 
$$X = SnBu_3$$
 1  $X = I(CN)Ph$  2 Intermediate  $X = Si(i-Pr)_3$   $X = I(CN)Ph$  2  $X = I(CN)Ph$  2  $X = I(CN)Ph$  2

2) Provide a mechanism for the following transformation: