Chem 331, PS#10

Name

KEY

due Mon, Nov 25, 2002 AT THE BEGINNING OF CLASS use extra paper (use a staple or paper clip)

1. Provide the reagents/reaction conditions for the following transformations. Write your answers over the arrows.

a.

b.

C.

d.

e.

$$CN = \frac{1) \text{LiAlH}_4}{2) \text{H}_3\text{O}^+}$$

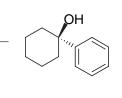
2. Provide a multistep syntheses starting from cyclohexene and any other materials.

Retrosynthesis

PhMgBr addition

Williamson ether synthesis

Forward synthesis



3. Provide the structure of **A.** Provide a mechanism for its formation