## Chapter 14 Worksheet 01

Please draw the product(s) for the following reactions.

1.

2.

Please draw the starting reactants used to produce the following product via Williamson Ether Synthesis.

3.

4.

5.

6.

Explain why bimolecular dehydration is a poor method for making unsymmetrical ethers like What would be a better method?

Please draw the product(s) or reactants for the following reactions.

9. 
$$(2 \text{ eq.})$$
 OH  $\frac{\text{H}_2\text{SO}_4 / 140^{\circ}\text{C}}{}$ 

11. Please synthesize the following molecule using any inorganic reagents, peroxy acids, and any oxidizing or reducing agents. and 3 carbons or less.

Please draw the product(s) for the following reactions.

15. Ph-O-CH<sub>2</sub>CH<sub>2</sub>-O-CH<sub>3</sub> + HBr (xs) 
$$\longrightarrow$$