**EXERCISE #6: Practice Reacting Alkynes**

Organic Chem II Alfred State College

1. Pd black/Lindlar’s Only cis form





+ H2

1. acetic





acid

+ 2HBr

1. + \_2\_ Br2





4)

OH-/H2O2





BH3 in THF

5)Route to trans-only 2-hexene







6) Route to just

(solvent) Trans only

CH2Cl2





7) + Br2

8) Route to 1-bromo-1-butene (hint: an anti-Markovnikoff add)





9) Route to

