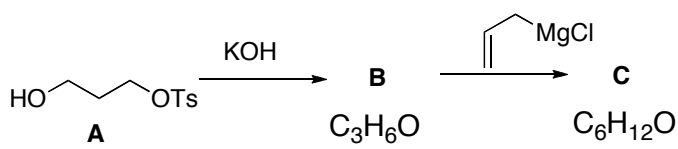


Fall 2006

Homework #6

due: 10 a.m. Mon. Oct 16th

1. (10 points) Draw structures for **B** and **C**.**¹³C NMR:**

138.6, d

1.55, m, 2H

114.5, t

1.68, m, 2H

62.6, t

2.10, dt, J = 6.7, 7.3 Hz, 2H

33.5, t

2.30, bs, 1H (exchanges)

32.2, t

3.62, t, J = 7.5 Hz, 2H

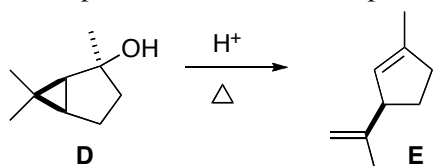
25.1, t

4.95, d, J = 11.2, Hz, 1H

5.03, d, J = 15.9 Hz, 1H

5.81, ddt, J = 11.2, 15.9, 6.7 Hz, 1H

2. (10 points) Draw an arrow-pushing mechanism for the following transformation.

3. (10 points) Show the synthesis steps to convert **F** into **G**.