

Problem 95, Chemistry 301X - 2006

Devise syntheses for the following molecules starting from 3,3-dimethyl-1-butene (**1**). You may use any inorganic reagent (no carbons), and the following “special” organic reagents: diazomethane, carbon tetrachloride, *tert*-butyl alcohol, *tert*-butyl iodide,  $\text{Hg}(\text{OAc})_2$ , carbon,  $(\text{CH}_3)_2\text{S}$ , trifluoroperacetic acid, strychnine and Susan Stanberg’s cranberry sauce. Your answers may be very short, and no mechanisms are required.

