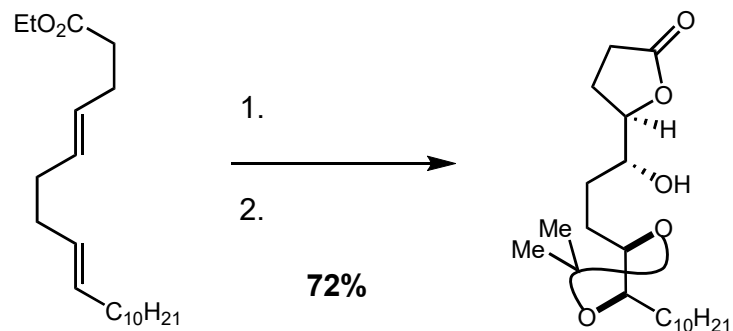
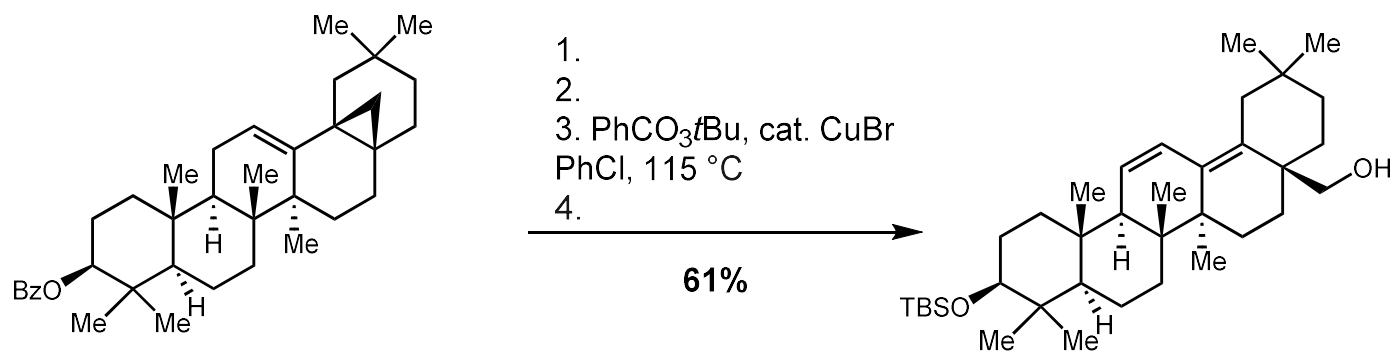


Problem Session – March 5, 2024
Sam He and Yu Wang

1. **Warm up:** Please provide suitable reagents for the two-step transformation. *Tetrahedron Lett.* **1995**, 36, 1981.



2. Please fill in the reagents for the three blanks and provide the mechanism for the third step. *JACS.* **1993**, 115(19), 8873.



3. Denksport! Fill in the blank boxes with the missing structures and provide a mechanism for the final step. (*JACS* **2023**, *145*, 8332-8337).

