

Department of Mechanical Engineering  
Massachusetts Institute of Technology  
Cambridge, MA 02139  
Fall 2003

2.800 Tribology

**Homework #7 (Due November 18, 2003)**

1. Estimate the wear rate of a diamond tool relative to a WC tool if they are used to cut AISI 1020 steel at 200 meters per minute. State your assumptions. First describe how you would estimate it and then derive the relative wear rate.