

Reading for February 13: Boas Chapter 8 Sections 1-4

- (1) Boas pg 394 problem 6
- (2) Solve the initial value problem $u' = 2u + 3$, $u(0) = 2$ two ways. Use maple to find the slope field and the specific solution. Also integrate to find the analytic solution.
- (3) (Optional!) The Student Assembly sent out an email inviting us to skate on the outdoor rink. It is now getting colder! How long do we wait? See Boas page 400, problem 25. The thermal conductivity of ice is $k = 2.4 \text{ W m}^{-1} \text{ K}^{-1}$ (from <http://www.its.caltech.edu/atomic/snowcrystals/ice/ice.htm>)