Homework 11

klin@math.arizona.edu

April 22, 2020 Due Tuesday 4/28 at 11:59p on Gradescope

Graded problems

- Exercises 2.27, 2.28, 2.31, 2.52^1
- Additional problem: for any integer n>0 and real t>0, let U_1,\cdots,U_n be independent *uniform* random variables on [0,t]. Let $V_n=\max(U_1,\cdots,U_n)$.
 - (a) Compute $P(V_n \le s)$ for $0 \le s \le t$.
 - (b) Find EV_n .

Suggested problems Exercises 2.30, 2.32, 2.36.

¹You may find it useful to do the additional problem first.