Homework 11

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

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

Suggested problems  Exercises 2.30, 2.32, 2.36.

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