

L35: April 26 (w/cds)

- Housekeeping:
- Homework due today (A 20)
 - — " — Friday (A 21)
 - Extra credit: Infographic
 - — " — : Poisson distribution
 - Final essay due 11:59 p.m. Fri., May 5
(on Canvas)
 - Section 01: Exam 3 on Fri, May 5
at 10:30 a.m. in this room
 - Section 02: Exam 3 on Fri., May 5
at 1:00 p.m. in this room.

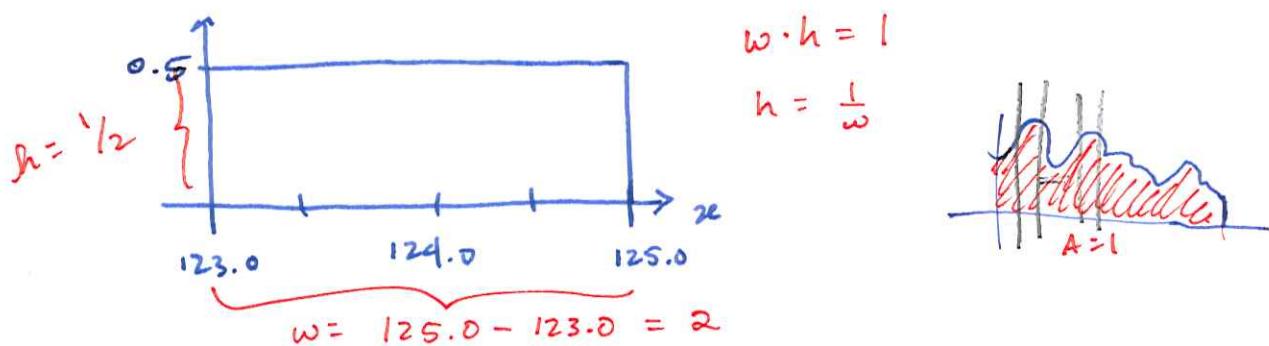
Last time: Introd. to cts. r.r. & uniform distribn

This time: same...

Recall: A cts. r.v. has the uniform distribution if its values are evenly (or... UNIFORMLY) spread about the range of possible values.

Example: National Grid provides electricity with voltage levels uniformly distributed between 123.0 and 125.0 volts. (Any voltage amount is possible, and ~~all~~ the values are spread uniformly in the range.)

The graph of the distribution / density of X is:



The graph of a cts. probability distribution (like the uniform distribution) is called a PROBABILITY DENSITY CURVE. A density curve must satisfy the following requirements:

- Every point on the curve must have vertical height 0 or greater (i.e., cannot go below x -axis)
- • Total area under curve must be 1.