

## Part 1. Continuous Random Variables

1. A college professor always finishes his lectures within 2 minutes after the bell rings to end the period and the end of the lecture. Let  $X$  = the time that elapses between the bell and the end of the lecture and suppose the pdf of  $X$  is

$$f(x) = \begin{cases} kx^2 & 0 \leq x \leq 2 \\ 0 & \text{otherwise} \end{cases} \quad \int_0^2 kx^2 dx = k \left( \frac{x^3}{3} \right) = \frac{kx^3}{3} = \frac{k}{3} = 1 \quad \Rightarrow k = 3$$

- a. Find the value of  $k$ . [Hint: Total area under the graph of  $f(x)$  is 1]  
 b. What is the probability that the lecture ends within 1 minute of the bell ringing?  $P(0 \leq X \leq 1) = \int_0^1 3x^2 dx = x^3 \Big|_0^1 = 1$   
 c. What is the probability that the lecture continues beyond the bell for between 60 and 90 seconds?  $P(1 \leq X \leq 2) = \int_1^2 3x^2 dx = x^3 \Big|_1^2 = 8 - 1 = 7$   
 d. What is the probability that the lecture continues for at least 90 seconds beyond the bell?  $P(X \geq 1) = 1 - P(X < 1) = 1 - 1 = 0$

2. The time  $X$  (minutes) for a lab assistant to prepare the equipment for a certain experiment is believed to have a uniform distribution with  $A = 20$  and  $B = 30$ .

- a. Write the pdf of  $X$  and sketch its graph.  $f(x) = \frac{1}{10} \quad 20 \leq x \leq 30 \quad 0 \text{ otherwise}$   
 b. What is the probability that preparation time exceeds 27 minutes?  $P(X > 27) = \int_{27}^{30} \frac{1}{10} dx = \frac{1}{10} (30 - 27) = 0.3$   
 c. Find the preparation mean time, then calculate the probability that preparation is within 2 minutes of the mean time?  $\mu = \frac{20+30}{2} = 25$   
 $P(23 \leq X \leq 27) = \int_{23}^{27} \frac{1}{10} dx = \frac{1}{10} (27 - 23) = 0.4$   
 d. For any  $a$  such that  $20 < a < a + 2 < 30$ , what is the probability that preparation time is between  $a$  and  $a + 2$  minutes?  $P(a \leq X \leq a+2) = \int_a^{a+2} \frac{1}{10} dx = \frac{1}{10} (a+2 - a) = 0.2$

3. "Time headway" in traffic flow is the elapsed time between the time that one car finishes passing a fixed point and the instant that the next car begins to pass that point. Let  $X$  = the time headway for two randomly chosen consecutive cars on a freeway during a period of heavy flow. The following pdf of  $X$  is

$$f(x) = \begin{cases} 0.15e^{-0.15(x-0.5)} & x \geq 0.5 \\ 0 & \text{otherwise} \end{cases}$$

What is the probability that the time headway is

- a. At most 6 seconds?  $P(X \leq 6) = 1 - P(X > 6) = 1 - \int_6^\infty 0.15e^{-0.15(x-0.5)} dx = 1 - e^{-0.15(6-0.5)} = 1 - e^{-0.825} = 0.562$   
 b. At least 6 seconds?  $P(X \geq 6) = \int_6^\infty 0.15e^{-0.15(x-0.5)} dx = e^{-0.15(6-0.5)} = e^{-0.825} = 0.438$   
 c. At most 5 seconds?  $P(X \leq 5) = \int_{0.5}^5 0.15e^{-0.15(x-0.5)} dx = 1 - e^{-0.15(5-0.5)} = 1 - e^{-0.675} = 0.491$   
 d. Between 5 and 6 seconds?  $P(5 \leq X \leq 6) = 0.562 - 0.491 = 0.071$

4. The cdf of checkout duration  $X$  for a book on a 2-hour reserve at a college library is given by:

$$F(x) = \begin{cases} 0 & x < 0 \\ \frac{x^2}{4} & 0 \leq x < 2 \\ 1 & 2 \leq x \end{cases}$$

Find the following:

- a.  $P(X \leq 1) = \frac{1^2}{4} = 0.25$   
 b.  $P(0.5 \leq X \leq 1) = 0.25 - \frac{0.5^2}{4} = 0.1875$   
 c.  $P(X > 0.5) = 1 - P(X \leq 0.5) = 1 - \frac{0.5^2}{4} = 0.875$   
 d. The median checkout duration  $\mu$  [Hint: solve  $0.5 = F(\mu)$ ]  $\frac{\mu^2}{4} = 0.5 \Rightarrow \mu^2 = 2 \Rightarrow \mu = \sqrt{2} = 1.414$   
 e. The density function  $f(x)$

$$f'(x) = \frac{x}{2} \quad \text{for } 0 \leq x \leq 2 \quad \text{and } 0 \text{ otherwise}$$

# Stats Exam

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