

$$P(60 \leq y \leq 90)$$

$$\cdot 125e^{-x^2/2}$$

Exam 3 Practice Test

$$P(1 \leq x \leq 2) \quad \text{Random Variables and their Distributions}$$

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

$$\int_0^2 kx^2 dx = f(x) = \begin{cases} kx^2 & 0 \leq x \leq 2 \\ 0 & \text{otherwise} \end{cases} \quad \int_0^2 kx^2 dx = k\left(\frac{x^3}{3}\right) \Big|_0^2 = \frac{k(8)}{3} = \frac{8k}{3} = k\left(\frac{8}{3}\right) = 0.375$$

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 minutes of the bell ringing? $0.4219 \approx 0.422$

c. What is the probability that the lecture continues beyond the bell for between 60 and 90 seconds? 0.2969

d. What is the probability that the lecture continues for at least 90 seconds beyond the bell?

$$1 - P(X \geq 90) = 1 - 0.4219 \approx 0.578$$

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 $B = 30$.

$$f(x) = \frac{1}{10} \quad 20 \leq x \leq 30 \quad 0 \quad \text{otherwise}$$

a. Write the pdf of X and sketch its graph.

b. What is the probability that preparation time exceeds 27 minutes? 3

c. Find the preparation mean time, then calculate the probability that preparation is within 2 minutes of the mean time? $10 - 12 = -2 \quad \frac{-2}{10} \leq \frac{2}{10} \quad P(-2 \leq X \leq 2) = \frac{2}{10} = 0.2$

d. For any α such that $20 < \alpha < \alpha + 2 < 30$, what is the probability that preparation time is between α and $\alpha + 2$ minutes?

$$\int_{\alpha}^{\alpha+2} \frac{1}{10} dx = .2 \quad \boxed{2} \quad 2.2 - 2.0 = 2$$

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

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

$$\int_{0.5}^{5.5} 0.15e^{-0.15x} dx = .15e^{-0.15x} \Big|_{0.5}^{5.5} = .15e^{-0.15(5.5)} - .15e^{-0.15(0.5)} = .15e^{-0.75} - .15e^{-0.075} = .4908$$

What is the probability that the time headway is

a. At most 6 seconds? $P(X \leq 6) = .562$

b. At least 6 seconds? $P(X \geq 6) = 1 - .562 = .438$

c. At most 5 seconds? $P(X \leq 5) = \int_{0.5}^{5} 0.15e^{-0.15(x-0.5)} dx = .15e^{-0.15(5)} = .15e^{-0.75} = .4908$

d. Between 5 and 6 seconds?

$$P(5 \leq X \leq 6) = .562 - .4908 = .071$$

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:

$$\frac{1}{4} = .25$$

a. $P(X \leq 1)$

$$.25 = .0625 \approx .0625$$

$$b. P(0.5 \leq X \leq 1) = .25 - .0625 = .1875$$

$$c. P(X > 0.5) = 1 - P(X \leq 0.5) = \frac{0.5^2}{4} = .0625 = 1 - .0625 = .9375$$

$$d. \text{The median checkout duration } \mu \text{ [Hint: solve } 0.5 = F(\mu)] \quad \frac{\mu^2}{4} \Rightarrow \mu^2 = 2 = \sqrt{2} = 1.414$$

e. The density function $f(x)$

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

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