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Probability random variables and sto



Distribution Function

If X is a discrete random variable, the function given by

$$F(x) = P(X \leq x) = \sum_{t \leq x} f(t) \text{ for } -\infty < x < \infty$$

where $f(t)$ is the value of the probability mass function of X at t , is called the **distribution function** or the **cumulative distribution function (cdf)** of X .

$$f_Y(y) = \begin{cases} \int_y^1 \left(\frac{1}{2}\right) dx, & 0 \leq x \leq 1 \\ \int_1^{2-y} \left(\frac{3}{2}\right) dx, & 1 < x \leq 2 \\ 0, & \text{otherwise} \end{cases}$$

$$f_Y(y) = \begin{cases} \frac{1}{2}(1-y), & 0 \leq x \leq 1 \\ \frac{3}{2}(1-y), & 1 < x \leq 2 \\ 0, & \text{otherwise} \end{cases}$$

$$f_Y(y=0.5) = \begin{cases} \frac{1}{4}, & .5 \leq x \leq 1 \\ \frac{3}{4}, & 1 \leq x \leq 1.5 \end{cases}$$

$$f_{X|Y}(x|0.5) = \frac{f_{X,Y}(x,y)}{f_Y(y=0.5)} = 2 \text{ for } .5 \leq x \leq 1.5$$

At a theme park, there is a roller coaster that sends an average of three cars through its circuit every minute between 6pm and 7pm. A random variable, X , represents the number of roller coaster cars to pass through the circuit between 6pm and 6:10pm.

What is the probability that 35 cars will pass through the circuit between 6pm and 6:10pm?

Mean: $\mu_x = \lambda t$
Standard Deviation: $\sigma_x = \sqrt{\mu_x}$

x = number of successes = 35
 t = a length of time = 10 minutes
 λ = average number of successes in an interval of $(t = 1) = 3$
 e = constant = 2.718

Calculating the Mean of a Discrete Random Variable

Below is the probability distribution for a golfer on a par 3 hole.

x = Number of Strokes to Complete Course

x	$P(x)$	$x * P(x)$
1	0.10	1 * 0.10 = 0.10
2	0.30	2 * 0.30 = 0.60
3	0.45	3 * 0.45 = 1.35
4	0.15	4 * 0.15 = 0.60

Mean Formula:
 $\mu_x = \sum [x * P(x)]$
 $\mu_x = 2.65$

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