

## Section 6.1

# Discrete and Continuous Random Variables

### Summary

In this section, we learned that...

- ✓ The **mean of a random variable** is the long-run average value of the variable after many repetitions of the chance process. It is also known as the **expected value** of the random variable.

- ✓ The expected value of a discrete random variable  $X$  is

$$\mu_x = \sum x_i p_i = x_1 p_1 + x_2 p_2 + x_3 p_3 + \dots$$

- ✓ The **variance of a random variable** is the average squared deviation of the values of the variable from their mean. The **standard deviation** is the square root of the variance. For a discrete random variable  $X$ ,

$$\sigma_x^2 = \sum (x_i - \mu_x)^2 p_i = (x_1 - \mu_x)^2 p_1 + (x_2 - \mu_x)^2 p_2 + (x_3 - \mu_x)^2 p_3 + \dots$$

# Section 6 1 Discrete Random Variables

**Wenbin Ji**



## **Section 6.1 Discrete Random Variables:**

The Enigmatic Realm of **Section 6 1 Discrete Random Variables**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Section 6 1 Discrete Random Variables** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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