

# Chapter 5 Normal Probability Distributions Solutions Free Books

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## **Lecture 2: Discrete Distributions, Normal Distributions**

- Verifies 2 Properties -  $F(x)$  Is Indeed Nonnegative - Area Under The Curve Is Indeed 1 (can't Integrate Normally But It Does Integrate To 1)
- Bell-shaped And

Unimodal • Centered At  $\mu$  •  $\sigma$  Controls The Spread - Larger  $\sigma$ , Wider Distribution -  
Smaller  $\sigma$ , Taller Mar 3th, 2024

## **Chapter 5: Normal Probability Distributions - Solutions**

In The Problem. For The Probability That  $X \leq a$ , **Convert  $a$  into A Z-score Using  $Z = \frac{a - \mu}{\sigma}$  And Use The Table To Find The Area To The Right Of The Z-score. For The Probability That  $X > a$**