

# Normal Probability Distributions Answers Elementary Statistics Pdf Free

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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

Feb 15th, 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  $X > a$