

MATH-338 Midterm 2 Cheat Sheet

THEORY

Day 14: probability density function is represented an integral with function $f(x)$. Our probability lies within the curve and is always 1. Density curve \rightarrow bell curve. Z-Score allows us to have a universal standard for density curves with different scales.

FORMULAS

<ul style="list-style-type: none">• $\square = width \times \frac{1}{width}$ (finite curve)• $Z = \frac{x-\mu}{\sigma}$ (z-score)• $X \sim N(\mu, \sigma)$	<ul style="list-style-type: none">• $< ++ >$
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