Formula Sheet:

Definition 1.1: Mean

Definition 1.2: Variance

Definition 1.3: Standard Deviation

and

Subset, Union, Intersection,

, ,

DeMorgan’s Law

Definition 2.3: Sample Space

Definition 2.6:

Theorem 2.2: Permutation

Theorem 2.3

Theorem 2.4: Combination

Definition 2.9: Conditional Probability

Definition 2.10: Independent Events

, , or

Theorem 2.5: Multiplicative Law of Probability

IF A and B are independent, then

Theorem 2.6: The Additive Law of Probability

IF A and B are mutually exclusive:

Theorem 2.7

Theorem 2.8

Theorem 2.9: Baye’s Theorem

Definition 3.2

Definition 3.3

Theorem 3.1

Definition 3.4

Theorem 3.2

Definition 3.5

Theorem 3.4

Theorem 3.5

Theorem 3.6

Definition 3.7

Binomial Probability Definition

Theorem 3.7

Definition 3.8

Geometric Probability Definition

Theorem 3.8

Extra Formulas

A success occurs on or before the nth trial:

A success occurs before the nth trial:

A success occurs on or after the nth trial:

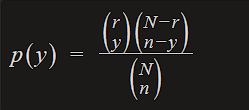
A success occurs after the nth trial:

Definition 3.9

Theorem 3.9

Definition 3.10

Word didn’t like this one, see definition 3.9 for same issue.



Theorem 3.10

Similar issue here,

