**Formula Sheet (Midterm) – This may not be your “actual” midterm exam formula sheet, please follow your MAT150.5/MAT150 instructor.**

Range = Max – Min

Class width =

Midpoint of each class:

Relative frequency =

Weighted mean:

**Population**

Mean:

Variance:

Standard deviation:

**Sample**

Mean:

Variance:

Standard deviation:

**Frequency table or distribution**

Mean: , where

Variance:

Standard deviation:

**Correlation coefficient**

**The equation of a regression line**

**Counting**

Permutation:

Distinguishable permutations:

Combination:

**Probability**

The complement of event E:

Two events *A* and *B* are independent when

Multiplication Rule: Dependent events

Independent event

Addition Rule: Not mutually exclusive

Mutually exclusive