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**MATH255 – Autumn 2023 Computer Lab – Week 12**

1. **(b)**

The mean of a U[0, 1] variable is calculated as follows:

where is the lower endpoint (minimum) of the variable

is the upper endpoint (maximum) of the variable

The variance and standard deviation of the variable can be calculated as follows:

The expected value for a sample of size 25 is:

The standard error of a sample of size 25 is:

with as the sample size

as the standard deviation