**MSDS 6370**

**HW 04**

1. Sampling distribution of a finite population

|  |  |
| --- | --- |
| **Name** | **GPA** |
| A | 3.5 |
| B | 2.7 |
| C | 3.1 |
| D | 3.2 |
| E | 2.4 |

How many possible samples of size 3 from SRS?

Specify the sampling distribution of sample means

|  |  |
| --- | --- |
| Sample | Mean |
| A, B, C | 3.100 |
| A, B, D | 3.133 |
| A, B, E | 2.867 |
| A, C, D | 3.267 |
| A, C, E | 3.000 |
| A, D, E | 3.033 |
| B, C, D | 3.000 |
| B, C, E | 2.733 |
| B, D, E | 2.767 |
| C, D, E | 2.900 |

What is the mean of the sampling distribution of sample means?

What is the standard error of the sampling distribution of sample means?

**Appendix:**

LAB04\_JackNelson.ipynb