Honours Multivariate Continuous Assessment 1

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Question 1

Sample Mean Vectors

The mean vector is defined as:

$$\bar{x}_j = \frac{1}{n} \sum_j x_{ij}$$

Therefore the mean vector for each of the 5 time periods are:

Table 1: Sample mean vectors for each of the five time periods

TimePeriod	MaxBreath	BasHeight	BasLength	NasHeight
1	131.367	133.600	99.167	50.533
2	132.367	132.700	99.067	50.233
3	134.467	133.800	96.033	50.567
4	135.500	132.300	94.533	51.967
5	136.167	130.333	93.500	51.367