# OMGT 6613 Management Science

## Exercise #3

**Linear and Integer Programming**

**Name:**

### Problem 1

Summarize your answers in the following table

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Optimal Decision | |  |  | | --- | --- | | Crop | Value | | **A** |  | | **B** |  | | **C** |  | | **D** |  | |
| Optimal Objective |  |
| Answer Report |  |
| Sensitivity Report |  |
| Additional Acres to Lease |  |

### Problem 2

Summarize your answers in the following table

|  |  |
| --- | --- |
| Graph – Cash Flow per Year |  |
| Total Discounted Cash Flow |  |
| Number of Bonds Selected |  |
| Bonds Purchased |  |

### Problem 3 (Extra Credit)

Summarize your answers in the following table

|  |  |
| --- | --- |
| Parameter Report – Max per Bond |  |
| Parameter Report – Initial cash Required |  |
| Parameter graph – Initial cash Required |  |
| Comment – Additional Bonds |  |
| Comment – Sensitivity Observations |  |