|  |  |
| --- | --- |
| Last Name |  |
| First Name |  |

**Task 1** - **Modifying force diagram**

A) Paste a screenshot of the **form,** **force and thrust** **diagrams** *before* the modification:

|  |
| --- |
| screenshot of the Rhino viewport,  showing the form, force and thrust diagrams |

1. Paste a screenshot of the **form,** **force and thrust** **diagrams** *after* the modification:

|  |
| --- |
| screenshot of the Rhino viewport,  showing the form, force and thrust diagrams |

**Task 2** - **Holes**

A) Document the process of generating the triangulated pattern.

|  |  |
| --- | --- |
| screenshot of the polar arrayed lines  with different lengths | screenshot of the outer boundary  and the circular inner boundaries |
| screenshot of the triangulation pattern  before applying sag to the open boundaries | screenshot of the triangulation pattern with sags applied to the open boundaries |

B) Briefly explain how you maintained the circular footprint of the inner boundaries in plan (max 200 words).

C) Paste a screenshot of the **form,** **force and thrust** **diagrams** of the final shell with the touchdown.

|  |
| --- |
| screenshot of the Rhino viewport,  showing the form, force and thrust diagrams |

**Task 3 - Touchdowns + smoothing**

A) Paste a screenshot of the **form,** **force and thrust** **diagrams** with the additional columns/supports *before* smoothing.

|  |
| --- |
| screenshot of the Rhino viewport,  showing the form, force and thrust diagrams |

B) Paste a screenshot of the **form,** **force and thrust** **diagrams** *after* smoothing.

|  |
| --- |
| screenshot of the Rhino viewport,  showing the form, force and thrust diagrams |

C) Briefly explain the steps you took to smoothen the thrust diagram (max. 200 words).

**Task 4 - Free design**

A) Paste a screenshot of the **form,** **force and thrust** **diagrams** of your shell.

|  |
| --- |
| screenshot of the Rhino viewport,  showing the form, force and thrust diagrams |

B) Provide a few additional screenshots or perspectives of the **thrust** **diagram**, that best showcases the unique features or angles of your shell.

|  |
| --- |
| screenshot of the thrust diagram |
| screenshot of the thrust diagram |