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

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

**1a : Cross Vault**

Paste a screenshot of the **form,** **force and thrust** **diagrams** *before* modifying the force diagram:

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

Paste a screenshot of the **form,** **force and thrust** **diagrams** *after* the modifying the force diagram:

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

**1b : Cross Vault with Central Opening**

Paste a screenshot of the **topology** *before* creating the form diagram:

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

Paste a screenshot of the **form,** **force and thrust** **diagrams** *after* finishing the formfinding steps:

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

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

Paste a screenshot of the **form,** **force and thrust** **diagrams** for your shell with the central hole:

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

Paste a screenshot of the **form,** **force and thrust** **diagrams** for your shell with the hole near a support:

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

Paste a screenshot of the **form,** **force and thrust** **diagrams** for your **triangulated** shell with the central hole:

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

What differences in terms of force flow do you observe between the three cases? (max 100 words).

What are the advantages and disadvantages of creating a hole in your shell when using a quadmesh versus a triangulated mesh? (max 200 words).