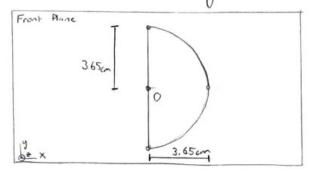
Pre-CAD Plan:

the intent of this project is to engrave 2 letters (initials) into a metalic sphere, Tr and from each other.

1st sketch - Sphere

Using the line & 3pt are tool, a half circle will be constructed around the origin on the front plane.



Tools: 8 - line

- Centerpoint arc

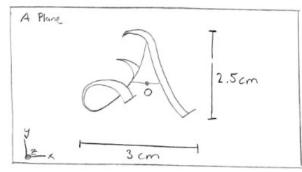
- Smart dimension

The elimentions are set to maintain ratio in case of Size adjustment. Dimensions chosen are that of a baseball.

The half circle will then become a sphere using 10 Revolved Boss/Base.

2nd sketch - Letter 'A'

A plane will be selected from 'Reference Geometry' & placed in front of the front plane, such that it just touches the surface of the sphere. Name - 'A plane'.



Tools: 2 - Line

37 - Centerpoint Arc

M - Spline

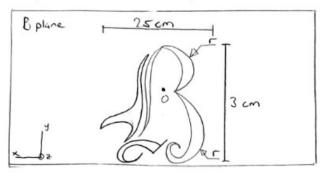
0 - Circle

35 - Trim Entities

- Smart Dimension

3rd Sketch - Lotter 'B'

A plane will be selected from Reference Geometry' & placed behind the front plane, so that it just toucher the edge of the sphere. Name - '8 plane'.



Tools - Same as 2nd Sketch.

Final Step

Using 1 - Wrop, the ABB sketches will be worped to fit the surface of the sphere, being treated as extended cuts in order to engrave them into the spheres surface.

Noted Challegges:

- I. Due to the complex nature of the fort, there is uncertainty as to which dimensions need defined in order to maintain snape during resizing.
- 2. Tools to make said shapes are not all listed as what will be needed is unclear.
- 3. 'Wrap' can be finishy & may distort lettering.



Main recommendations on how to make this an even better pre-cad plan:

- 1. Add initial modeling assumptions.
- 2. Add bulleted list of feature creation steps.
- 3. Provide a preliminary 3D sketch that shows roughly where each plane will be with respect to the object. Label these planes on this sketch so you can refer to these names later.
- 4. Enlarge the 2D sketches so you have space to show key dimensions and relations that will be used to fully define the sketch.
- 5. Show key dimensions and key relations that you plan to use to fully define your letters. It's okay if this plan changes.