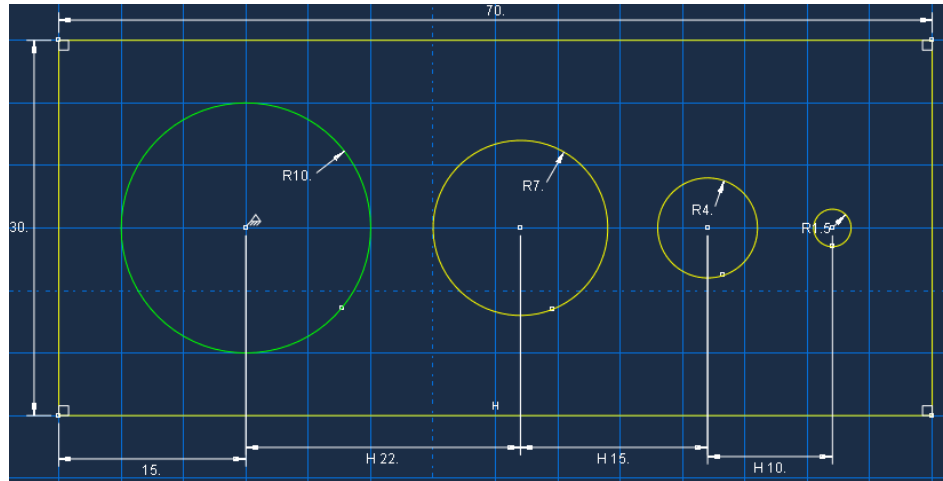


Meshing A Variety of Geometries


CURVATURE CONTROL

Create a 2D Planar, shell of proportions 80x30. Try varying values for the curvature control and mesh the part.



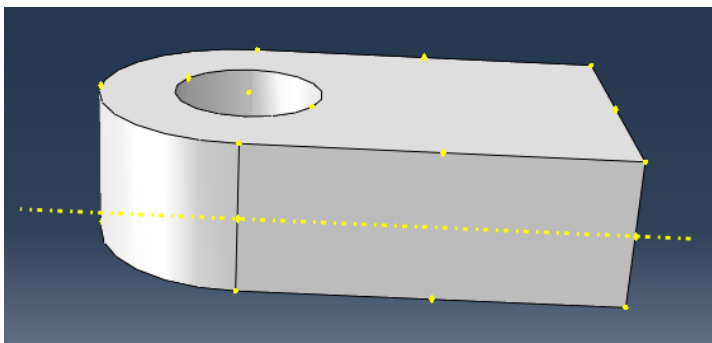
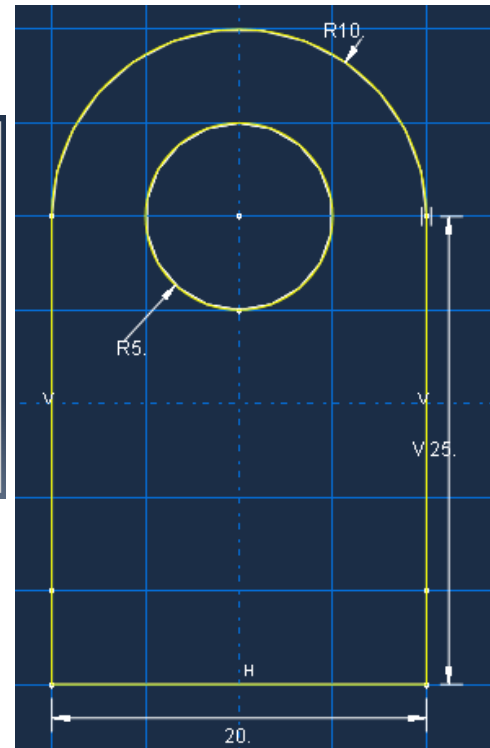
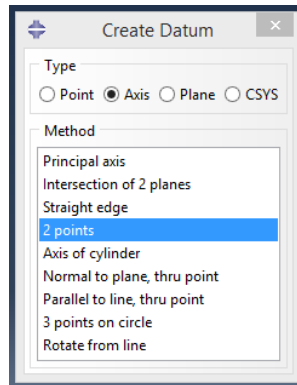
PARTITIONS


Create a 3D Planar, Deformable, Solid Extrusion = 10 part. Follow the geometry at right.

Use *Datum toolset* to draw a datum axis: in the toolbox select , or in the main menu, select *Tools*→*Datum*.

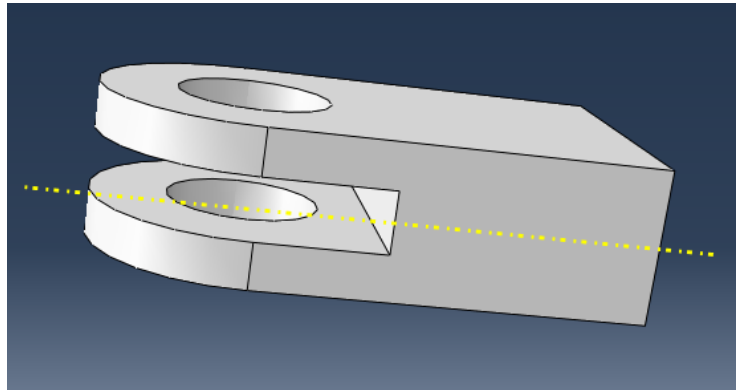
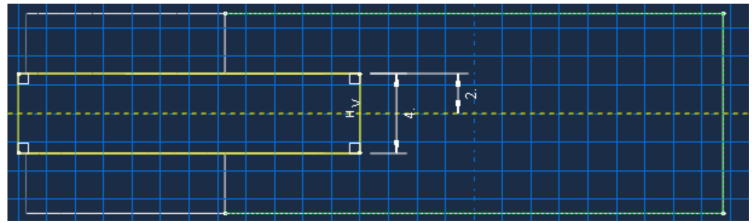
In the Create Datum box, select *Type: Axis*; *Method: 2 points*.

Then choose one of the side surface and follow the directions in the prompt area create a datum axis in the middle as shown in the picture below.



In the toolbox area, select *Create Cut* .
Create a cut in the middle.

Now mesh, using the datum plane to partition the mesh.



BOTTOM-UP MESHING

Access the tutorial online at go.illinois.edu/me498ca-bumeshing.