Experiment no. 7

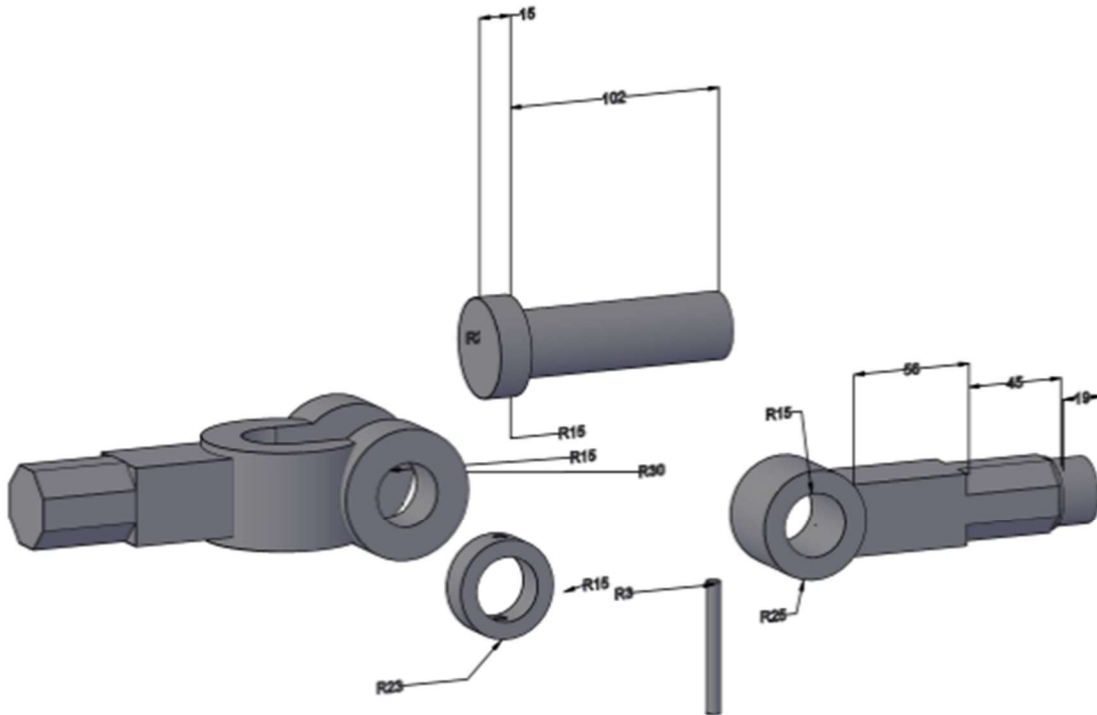## *Knucle Joint 3-D*

3-D Representation

List of Commands Used

Command: LIMITS

Reset Model space limits:

Specify lower left corner or [ON/OFF] <0.0000,0.0000>: 1000,1000

Command: Z

ZOOM

Specify corner of window, enter a scale factor (nX or nXP), or

[All/Center/Dynamic/Extents/Previous/Scale/Window/Object] <real time>: a

Regenerating model.

Command: C

CIRCLE

Specify center point for circle or [3P/2P/Ttr (tan tan radius)]: 0,0

Specify radius of circle or [Diameter]: d

Specify diameter of circle: 30

Command: CIRCLE

Specify center point for circle or [3P/2P/Ttr (tan tan radius)]: 0,0

Specify radius of circle or [Diameter] <15.0000>: d

Specify diameter of circle <30.0000>: 50

Command: C

CIRCLE

Specify center point for circle or [3P/2P/Ttr (tan tan radius)]: 0,0

Specify radius of circle or [Diameter] <25.0000>: <Isoplane Top> <Isoplane Right> <Ortho on> 75

Command: L

LINE

Specify first point: 0,0

Specify next point or [Undo]: 75

Command: OFFSET

Current settings: Erase source=No Layer=Source OFFSETGAPTYPE=0

Specify offset distance or [Through/Erase/Layer] <Through>: 16.5

Select object to offset or [Exit/Undo] <Exit>:

Command: REG

REGION

Select objects: 1 found

Select objects: 1 found, 2 total

Select objects: Specify opposite corner: 0 found

Select objects: Specify opposite corner: 0 found

Select objects: Specify opposite corner: 1 found, 3 total

Select objects: 1 found, 4 total

Select objects:

1 loop extracted.

1 Region created.

Command: EXT

EXTRUDE

Select objects to extrude or [MOde]: 1 found

Select objects to extrude or [MOde]: 1 found, 2 total

Select objects to extrude or [MOde]:

Specify height of extrusion or [Direction/Path/Taper angle/Expression]: 36

Command: SU

SUBTRACT Select solids, surfaces, and regions to subtract from ..

Select objects: 1 found

Select objects:

Select solids, surfaces, and regions to subtract ..

Select objects:

Command:

ARC

Arc creation direction: Counter-clockwise (hold Ctrl to switch direction).

Specify start point of arc or [Center]:

Specify second point of arc or [Center/End]:

Specify end point of arc:

Command: M

MOVE

Select objects: 1 found

Select objects:

Specify base point or [Displacement] <Displacement>:

Specify second point or <use first point as displacement>: 1.5

Command: C

CIRCLE

Specify center point for circle or [3P/2P/Ttr (tan tan radius)]:

Specify radius of circle or [Diameter] <16.5000>:

Command: Polygon

Command: _polygon Enter number of sides <6>: 8

Specify center of polygon or [Edge]:

Resuming POLYGON command.

Specify center of polygon or [Edge]:

Command: PRESSPULL

Select object or bounded area:

Specify extrusion height or [Multiple]:

Specify extrusion height or [Multiple]:

1 extrusion(s) created

Select object or bounded area:

Command: SU

SUBTRACT Select solids, surfaces, and regions to subtract from ..

Select objects: 1 found

Select objects:

Select solids, surfaces, and regions to subtract ..

Select objects: 1 found

Select objects: 1 found, 2 total

Select objects:

Command: qsave