



# Advanced Modeling Worksheet

NAME: \_\_\_\_\_

Date: \_\_\_\_\_

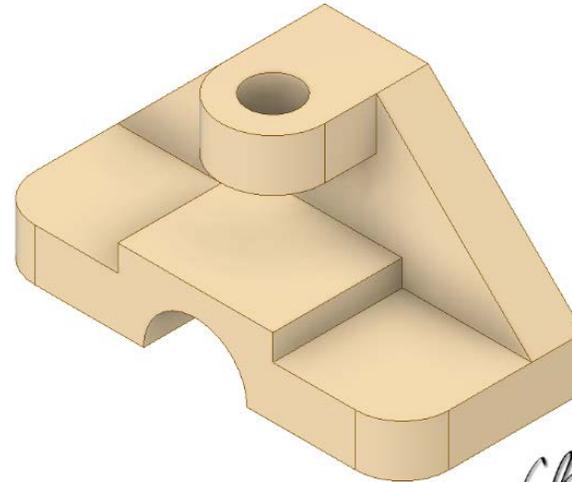
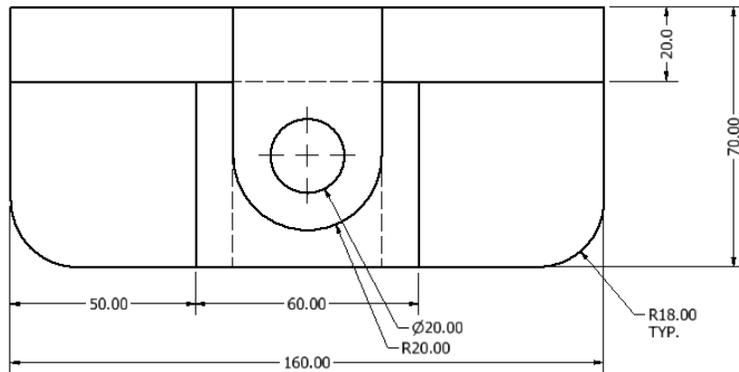
Section: \_\_\_\_\_

## Directions

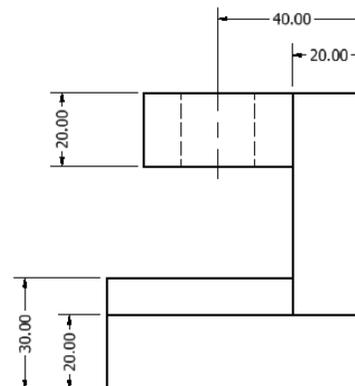
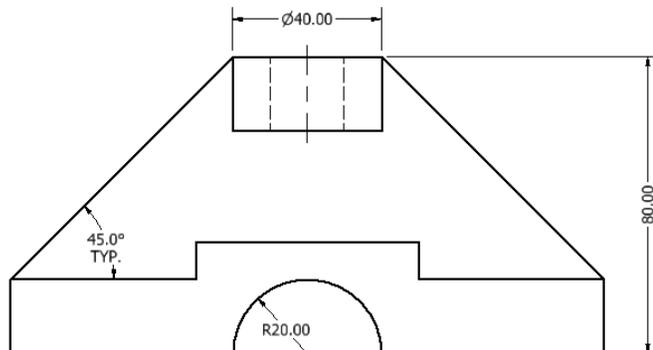
Make all the **Metric** parts below out of the proper materials and place the screen capture of the part and the I-properties box in the space below.

## Screen Captures

**Model 1: Angle Block – Made of High-Density Polyethylene**



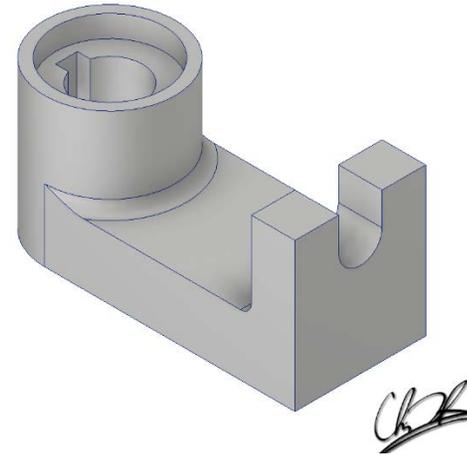
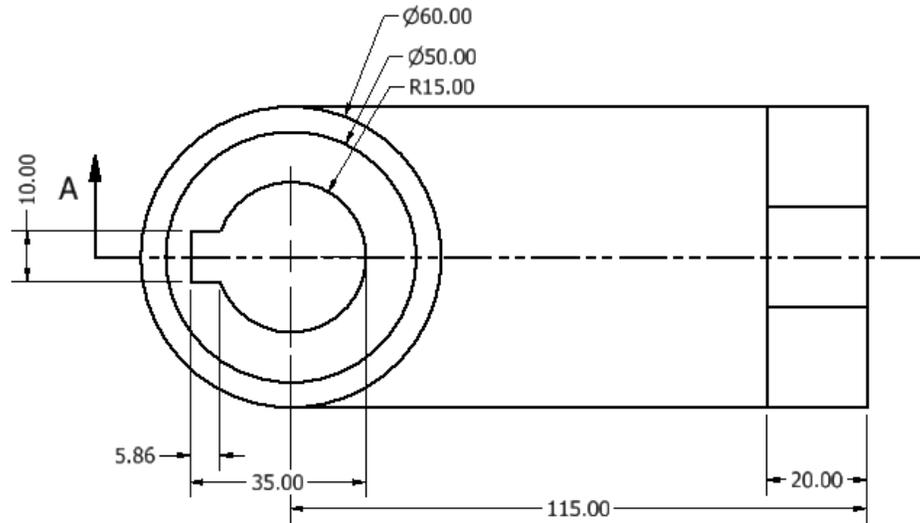
*Chris*



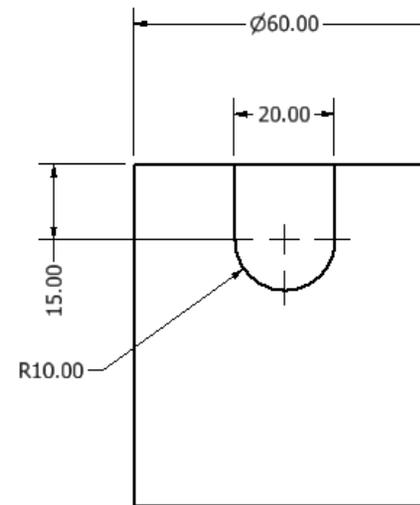
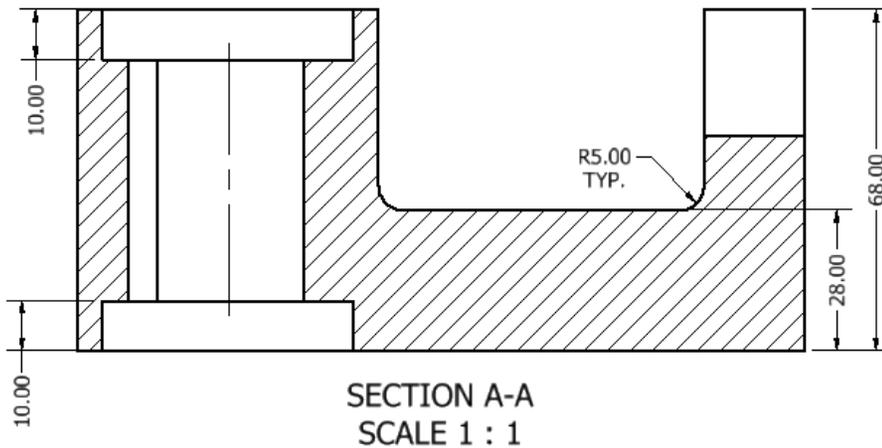
**NOTES:**



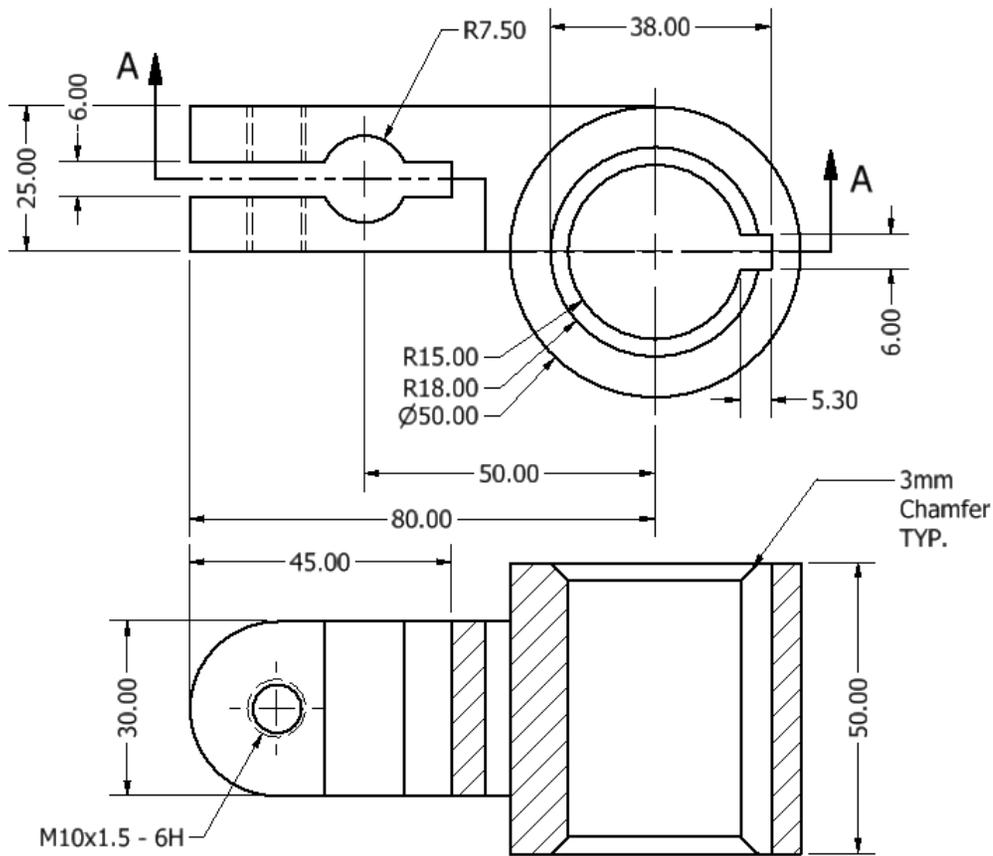
**Model 2: Pole Bracket – Made of Aluminum 6061**



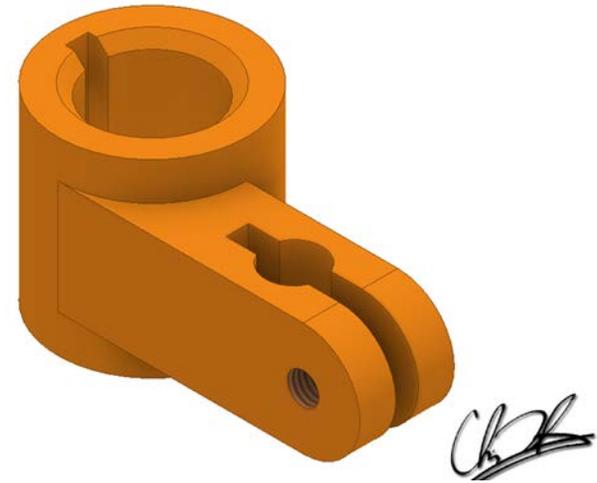
**NOTES:**



**Model 3: Shaft Collar – Made of Cast Iron**



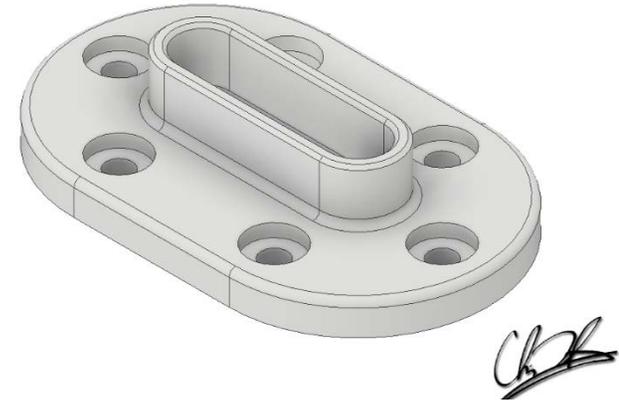
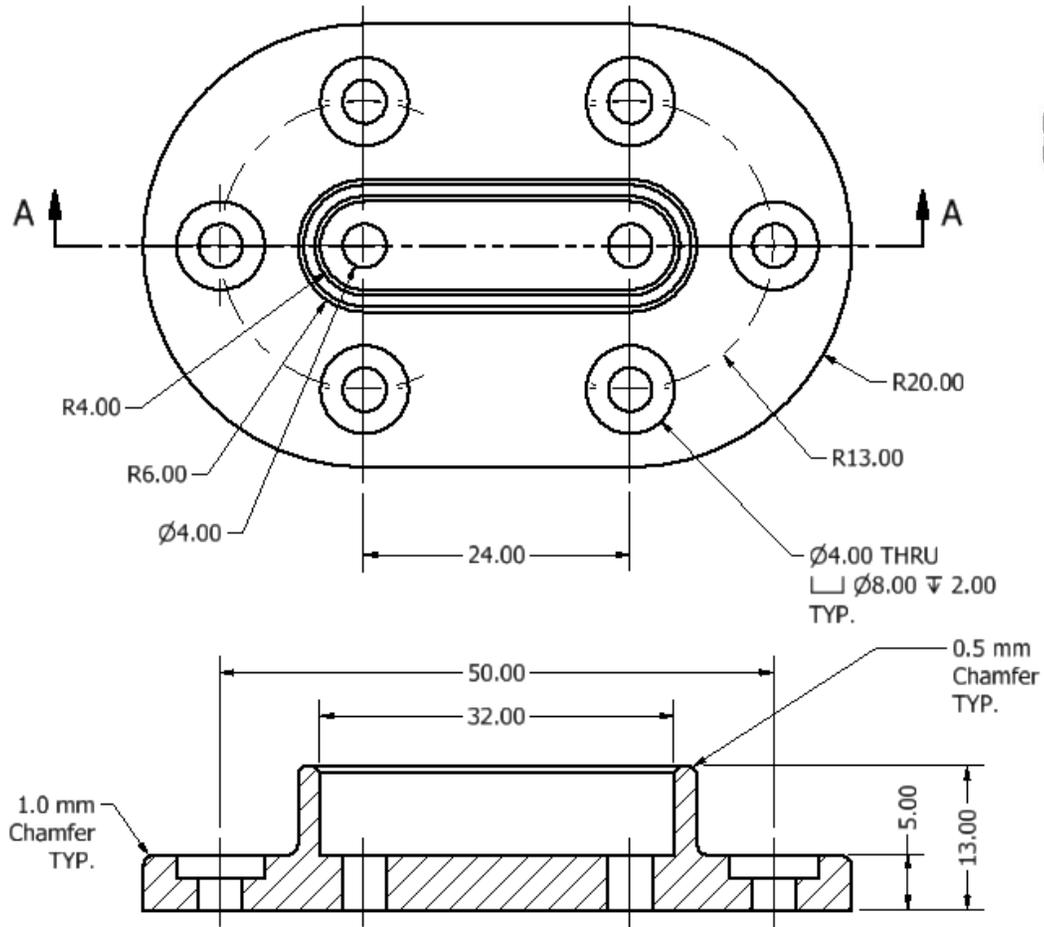
**SECTION A-A**  
**SCALE 1 : 1**



**NOTES:**



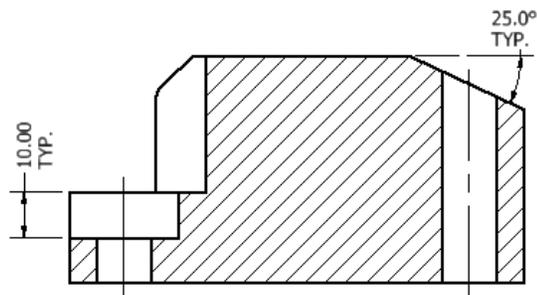
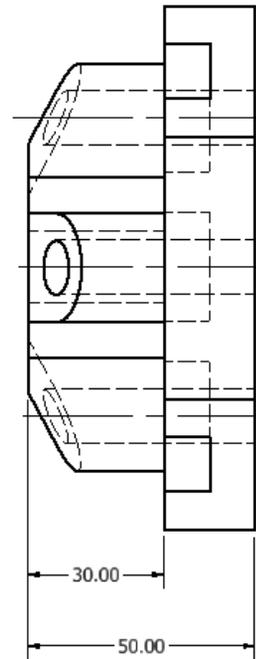
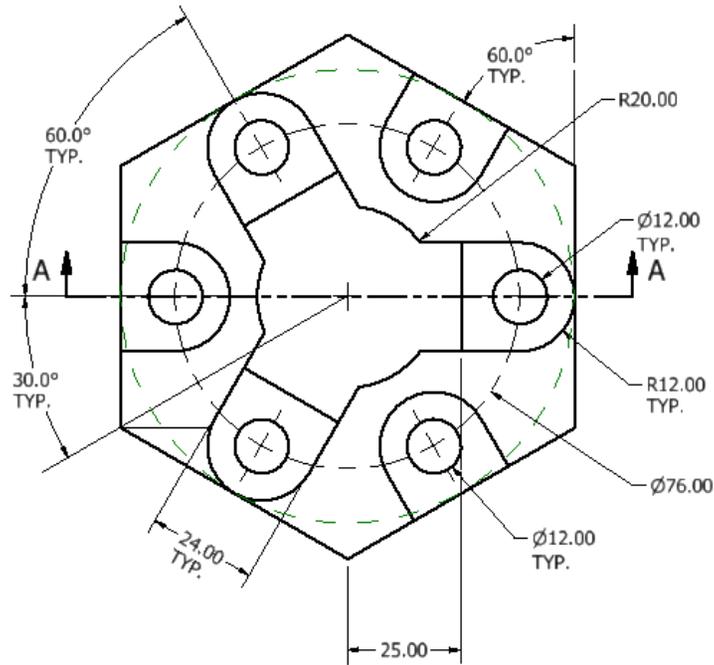
Model 4: Rail Flange – Made of ABS Plastic



**NOTES:**

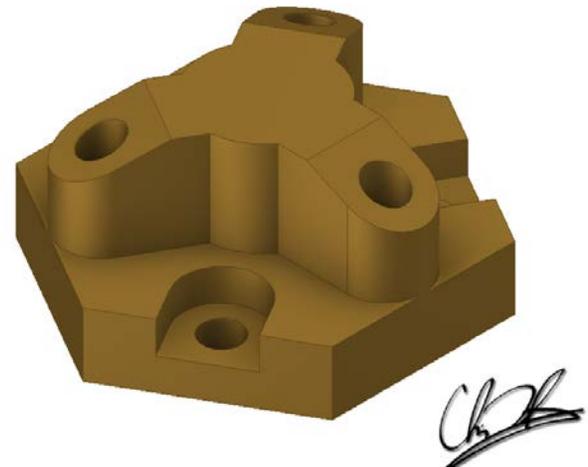


**Model 5: Triple Beam Mount – Made of Brass**



SECTION A-A  
SCALE 1

**NOTES:**  
Dimension of the inscribed circle of the Hexagon = 100mm



## ***CONCLUSION***

1. What made these activities harder than the ones that you did before this?
  
2. Name 3 tools in your 3D modelling software that you got better at using because you did these activities. EXPLAIN briefly how these tools work.
  - a. \_\_\_\_\_ -
  
  - b. \_\_\_\_\_ -
  
  - c. \_\_\_\_\_ -

## ***GOING BEYOND***

Make a part that incorporates as many of the 3D modelling tools that you can think of.

