

60 AutoCAD 2D & 3D Practice

# Drawings and Projects

Complete drawings with proper dimensions for practice



SOURCECAD

# Overview

The drawings here are intended to be used as a practice material and to help you apply CAD tools on some real-life drawings. There is no denying in the fact that practicing is the best way to learn any new skill and the more you practice more likely you are to retain that information.

Hence, this book has been developed keeping in mind the needs of learners who are in the initial or intermediate phase of learning the CAD software.

This Book will also work as a great practice material for instructors to assign projects to their students.

Although, the drawings of this eBook are made with AutoCAD software still it is not solely a practice drawing material for AutoCAD users. You can use the drawings in this eBook to practice with other Parametric or non-parametric software's.

This current edition of eBook contains thirty 2D practice drawings twenty 3D practice drawings and ten projects. We keep adding more drawings in this eBook, visit [SourceCAD course page](#) for the latest edition of the book.

# Companion videos and downloads

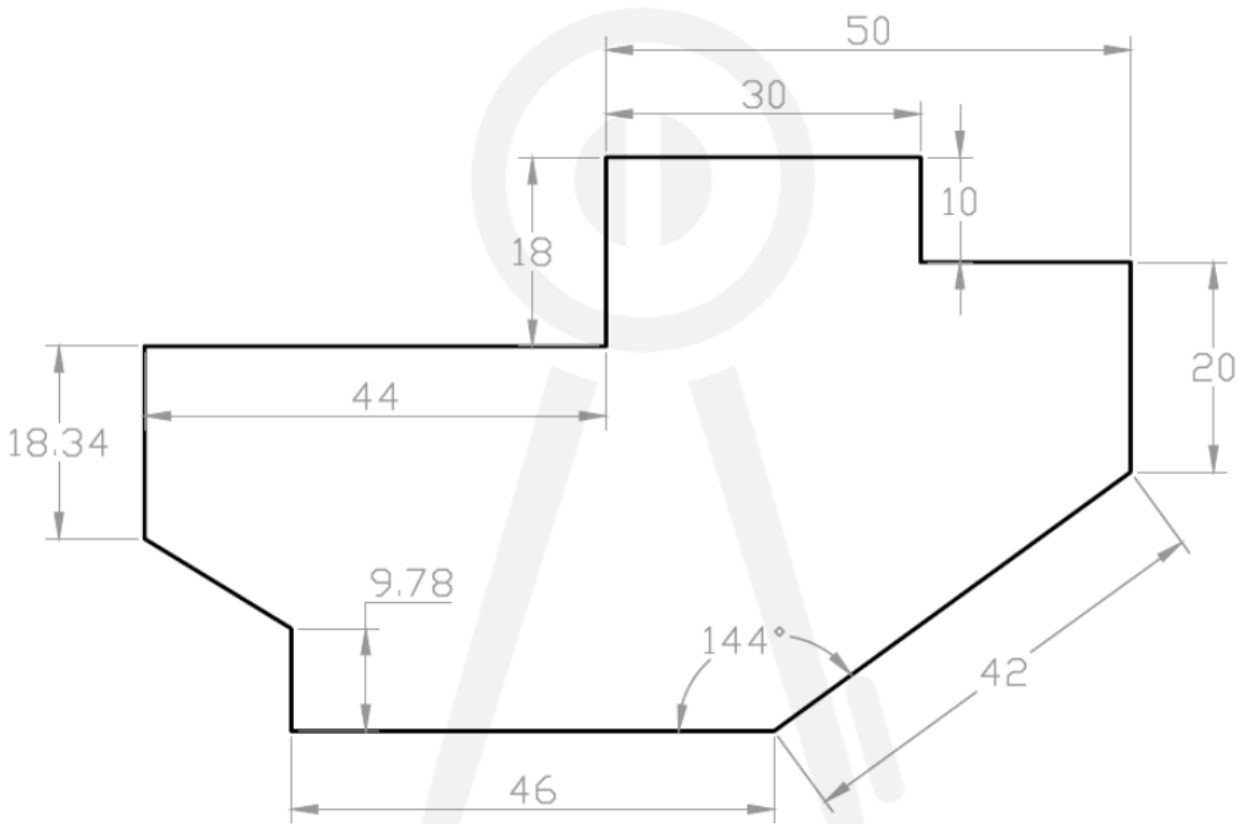
**If you are stuck with any drawing and finding it difficult to make it then head over to the companion course of this book to see the video explanation of the drawing. To go to the companion course, type the URL shown below in your browser.**

<https://goo.gl/gGxbHe>

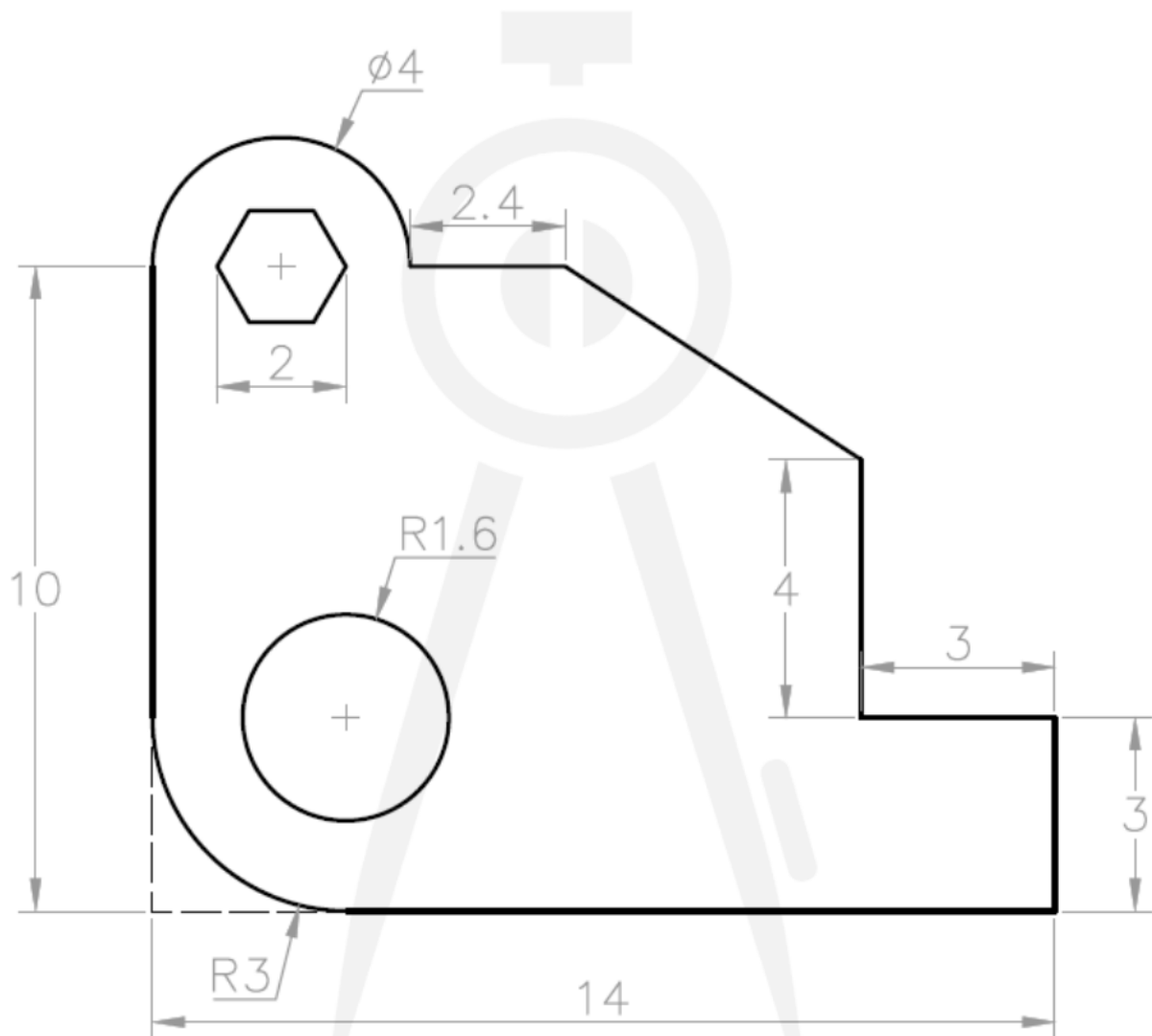
**The DWG files of all drawings can be accessed from the course mentioned above. You will need AutoCAD 2013 or any other latest version to open these DWG files. All the 3D drawings here are made in First angle projection.**

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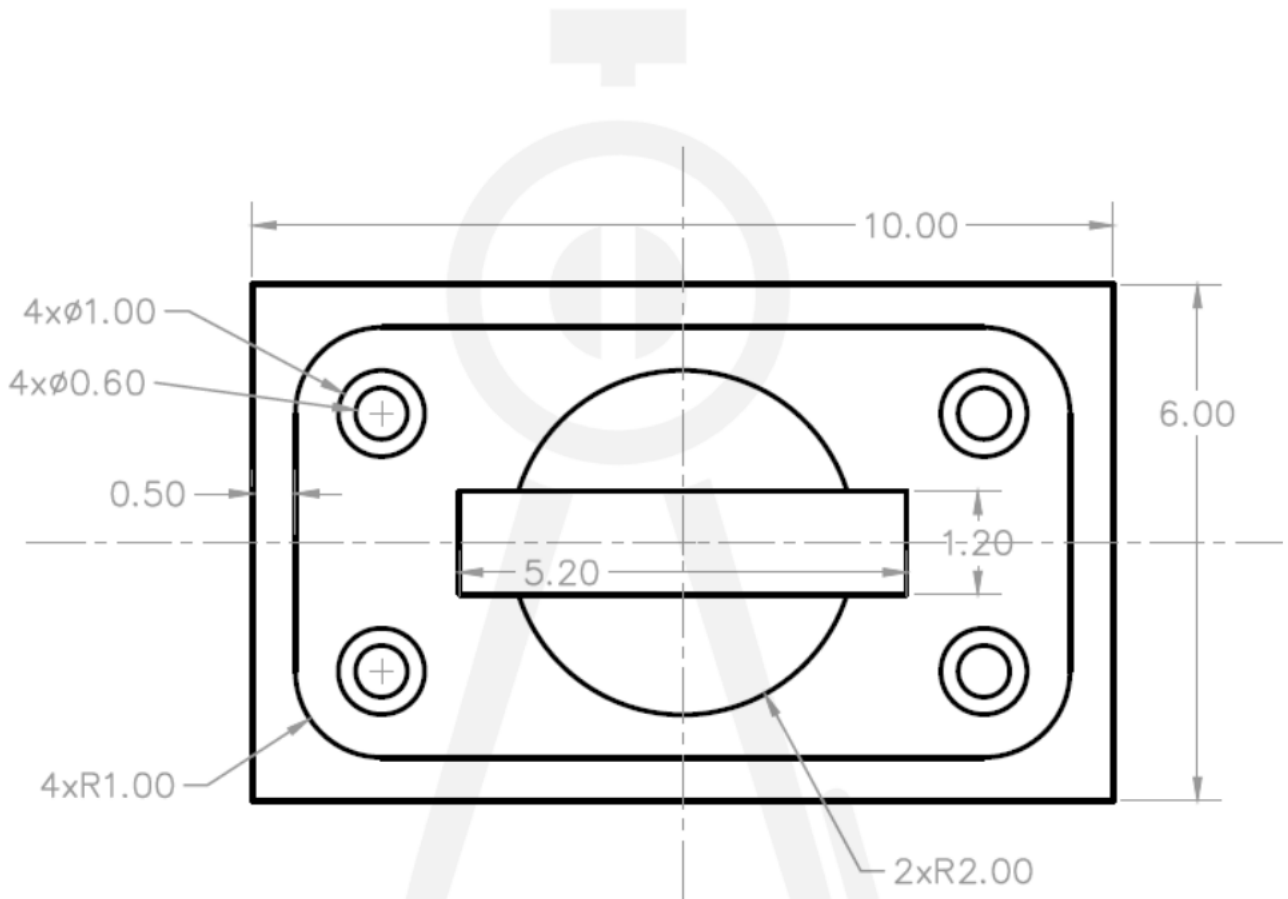
# 2D practice drawings



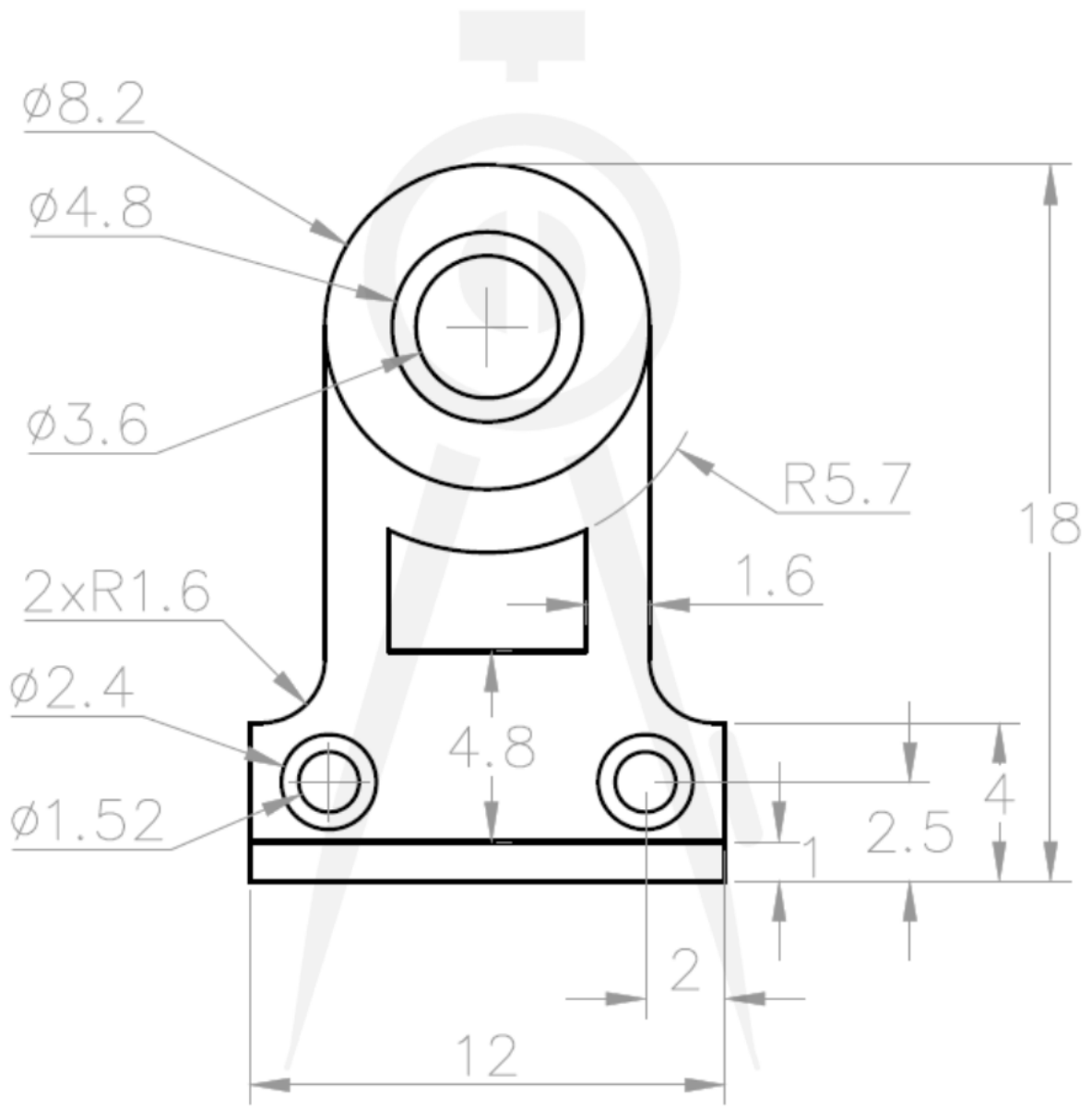
2D-1



2D-2

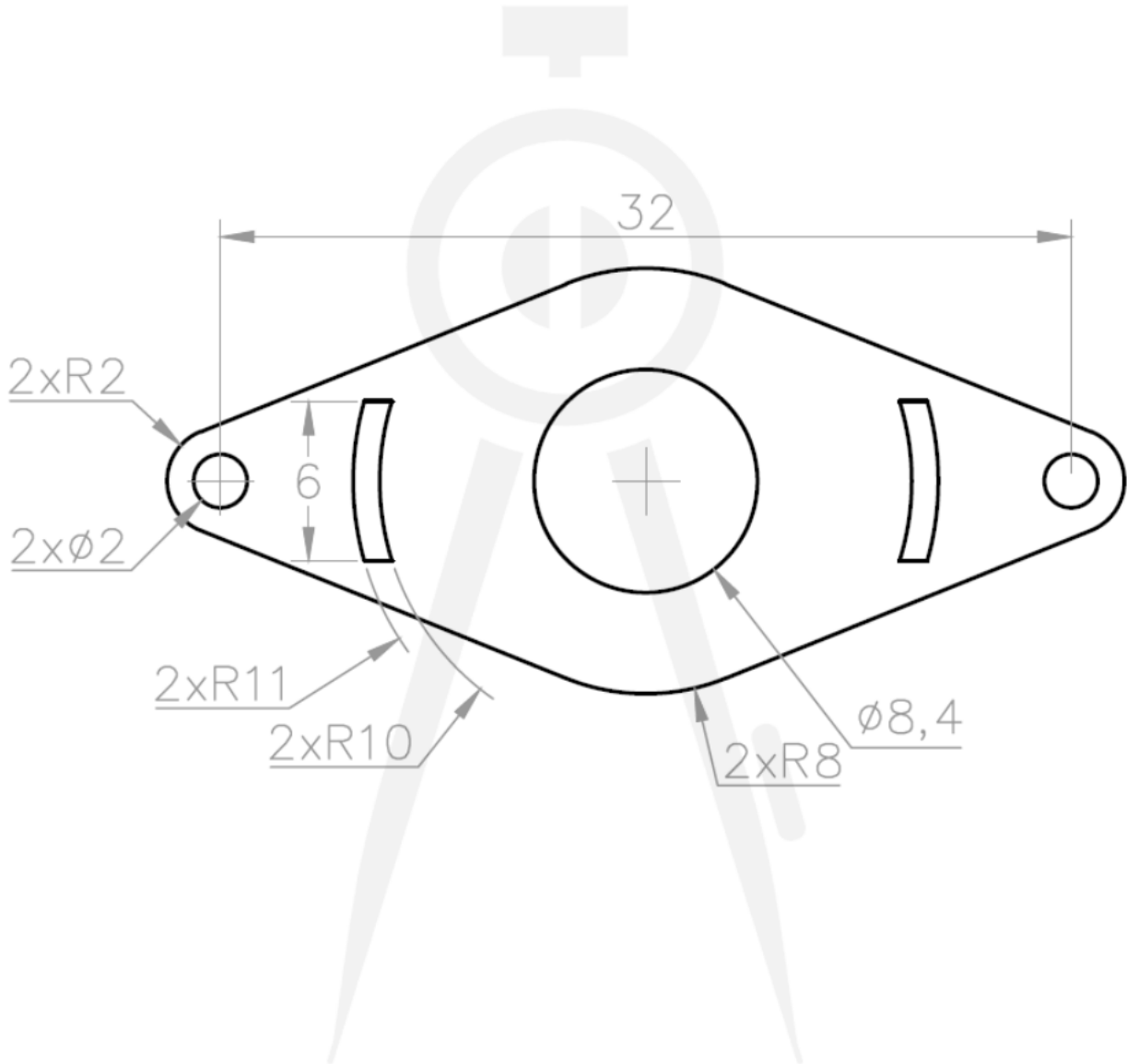


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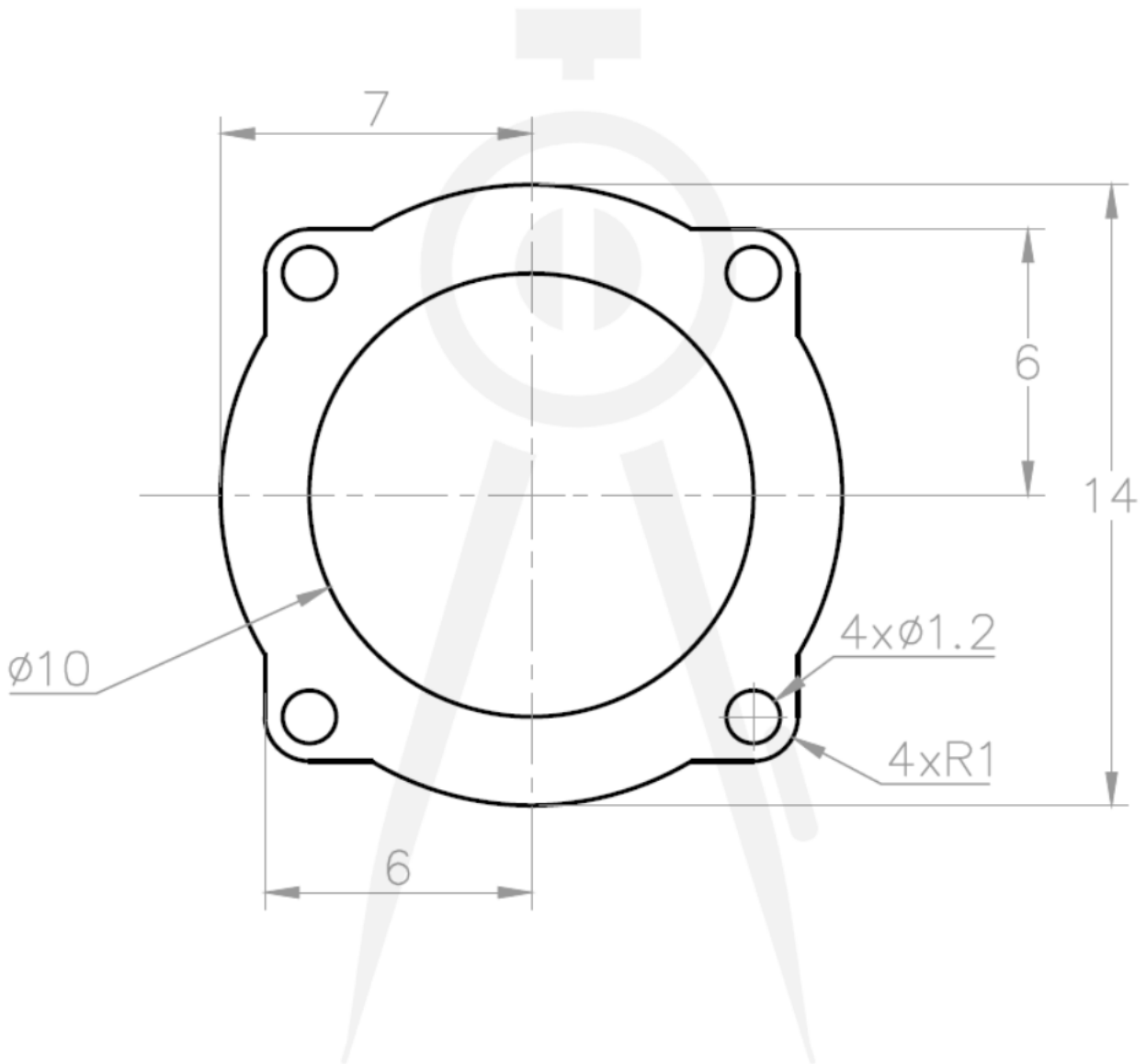


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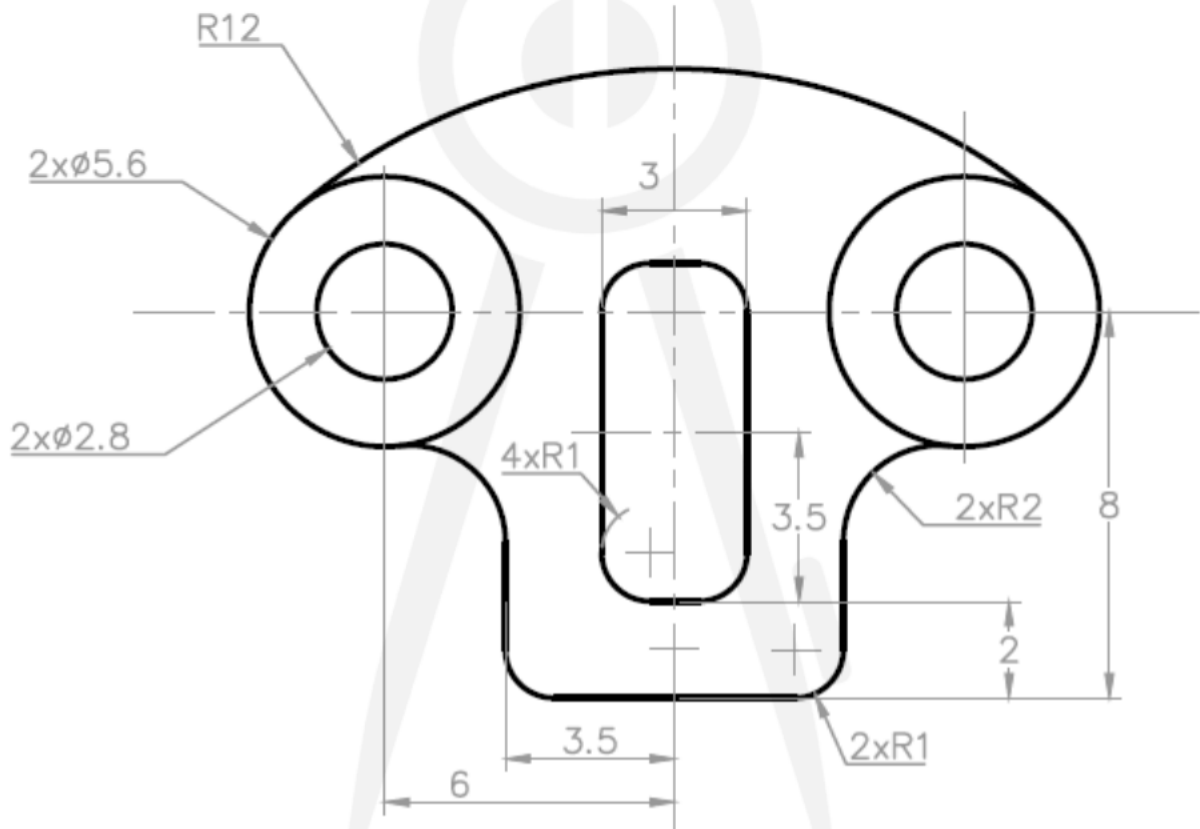




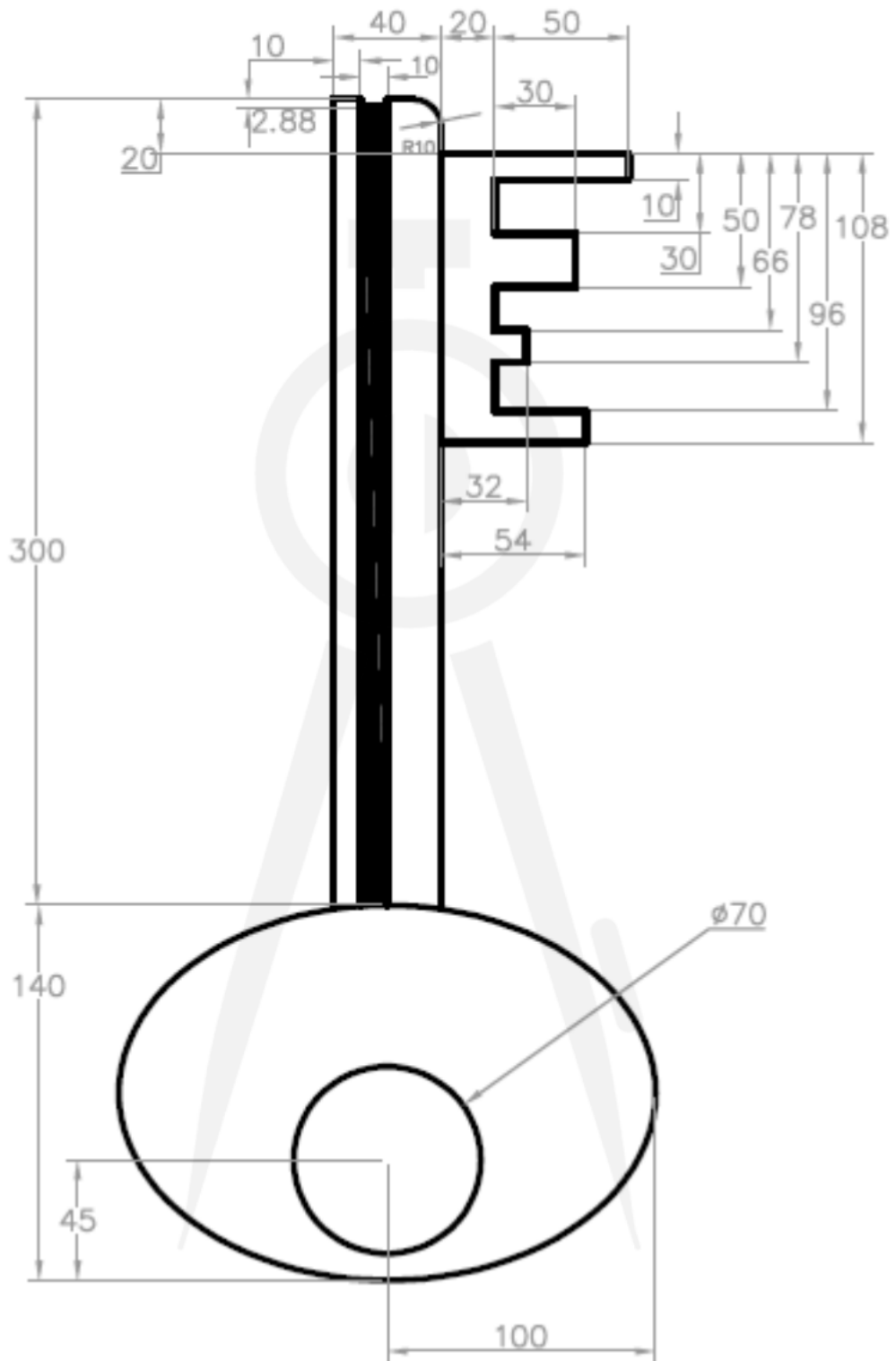
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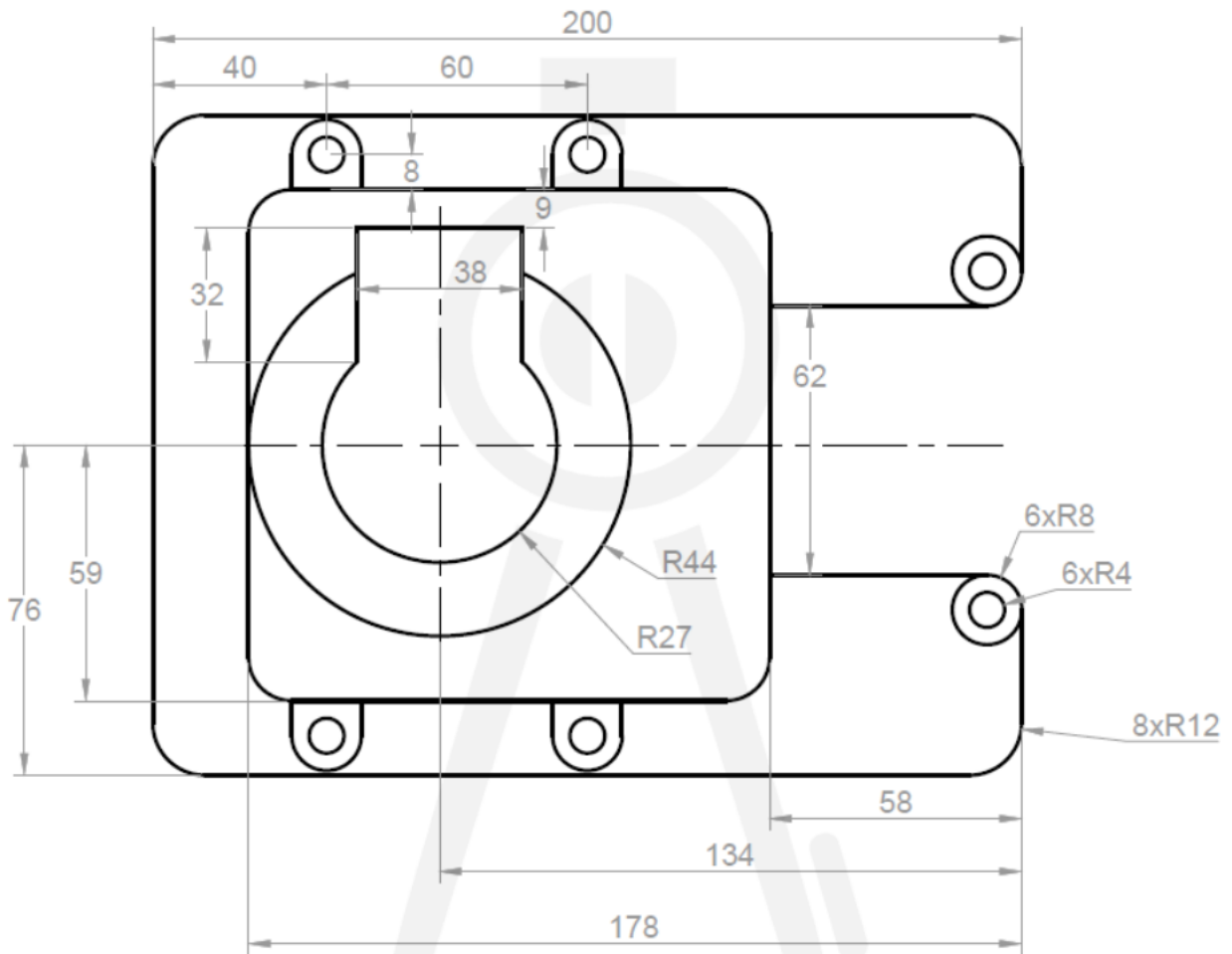
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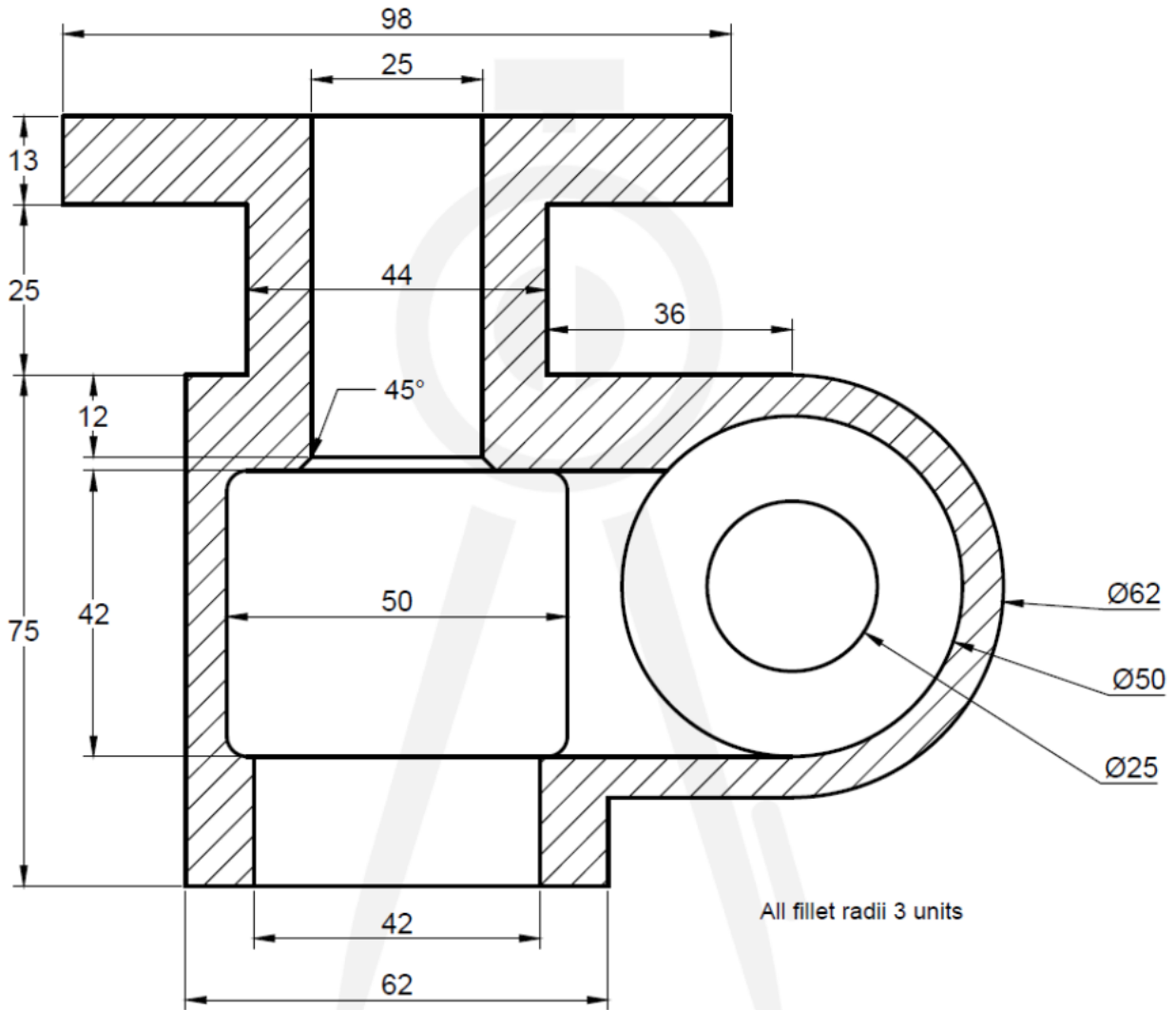
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2D-8

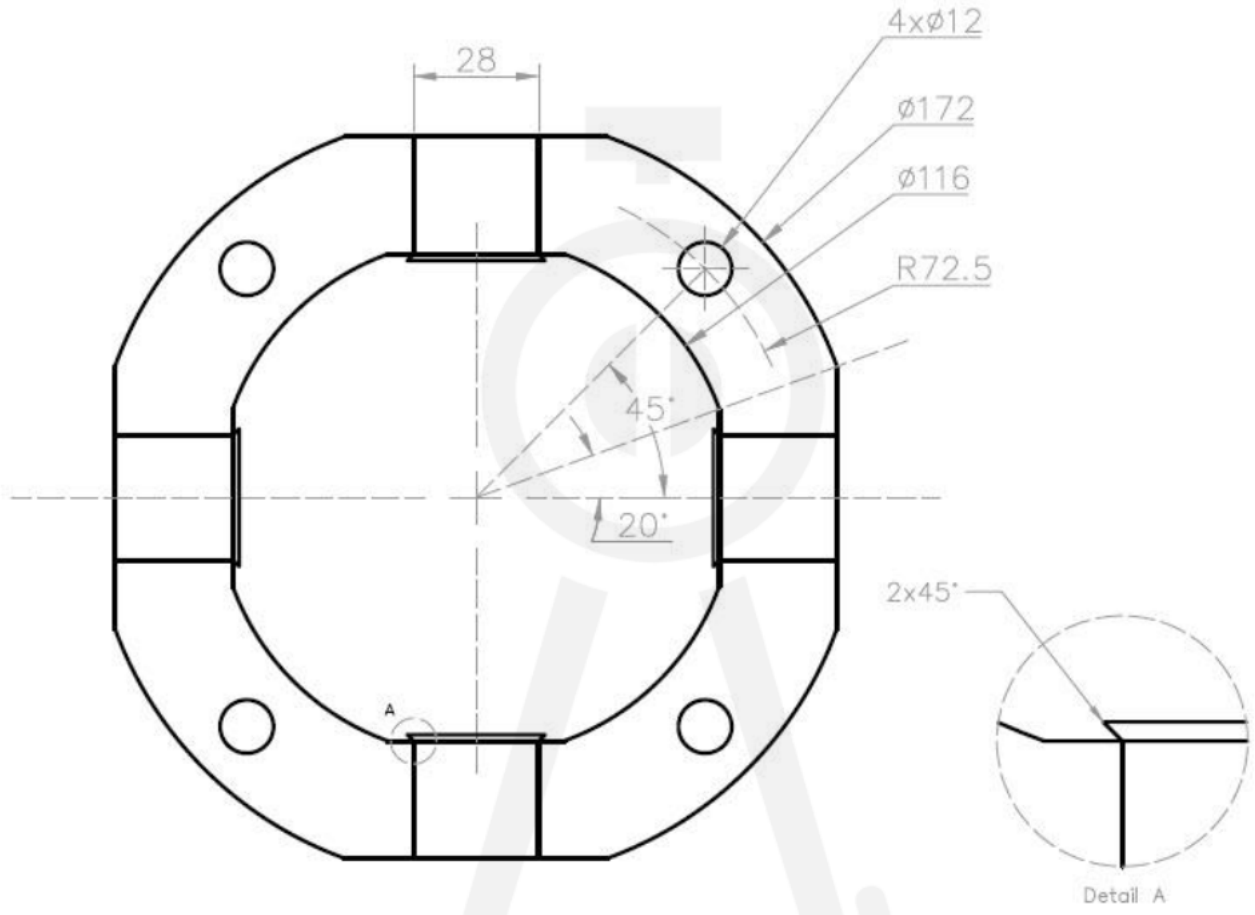


2D-9



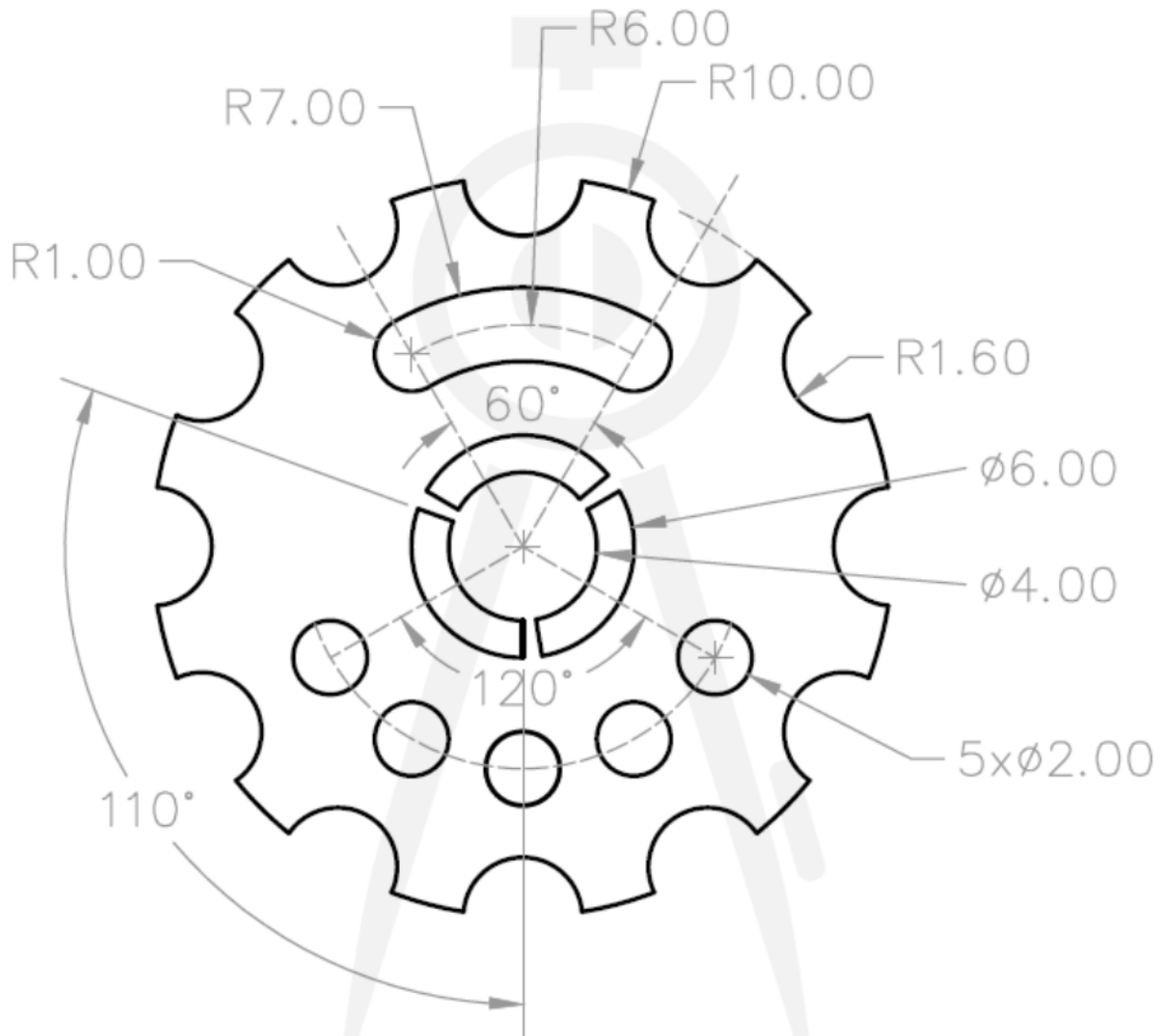
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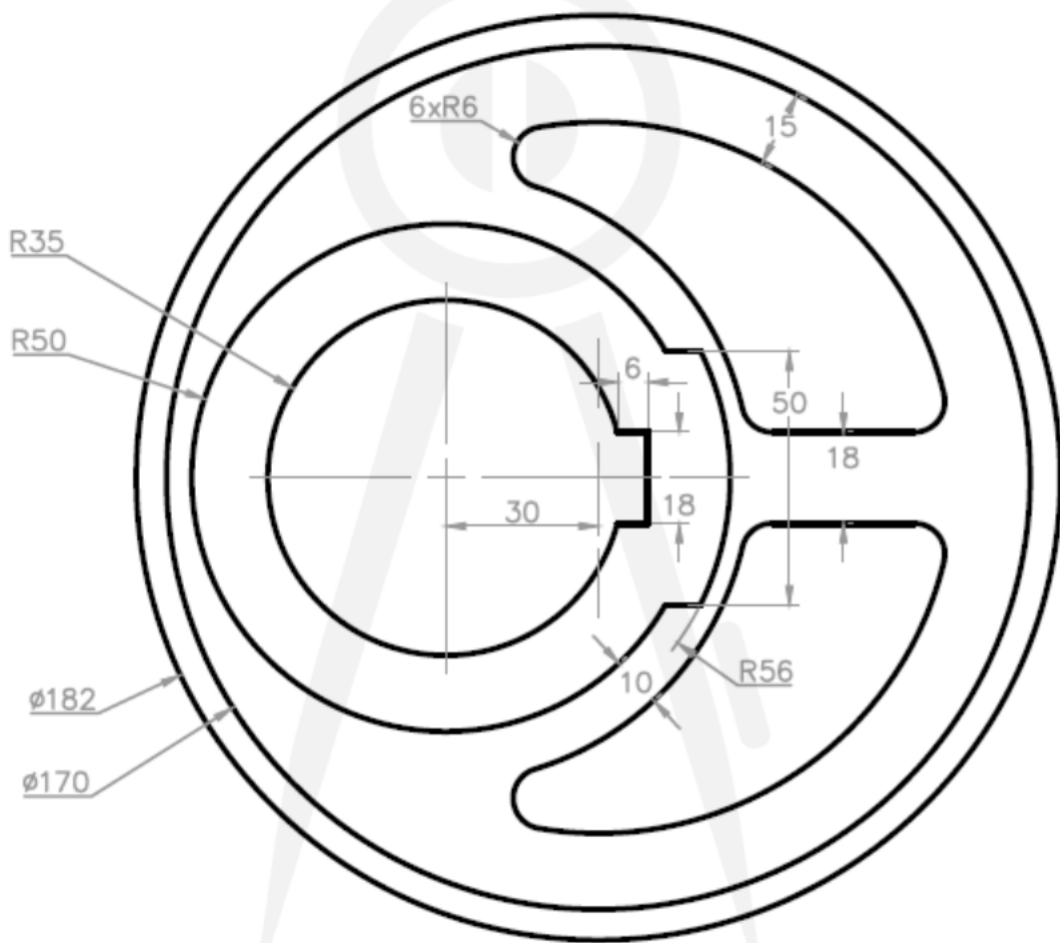


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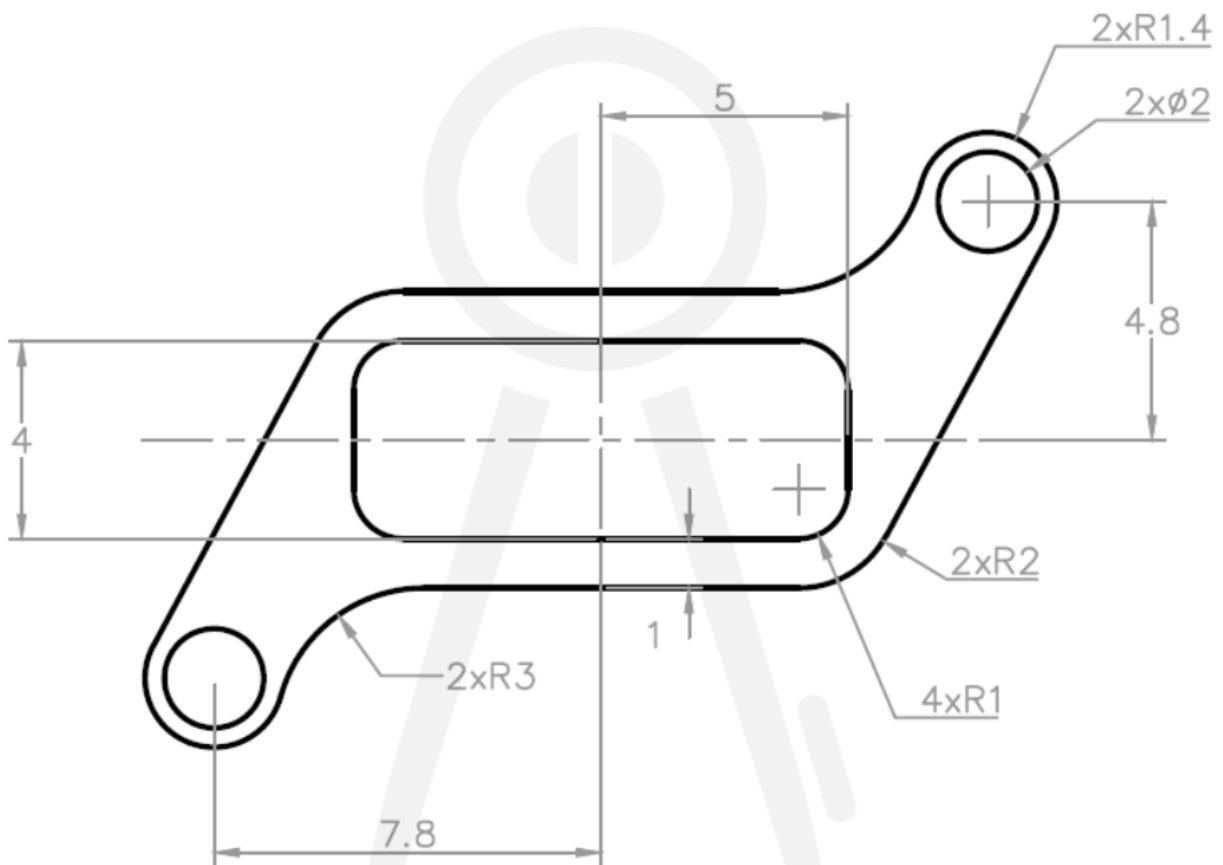




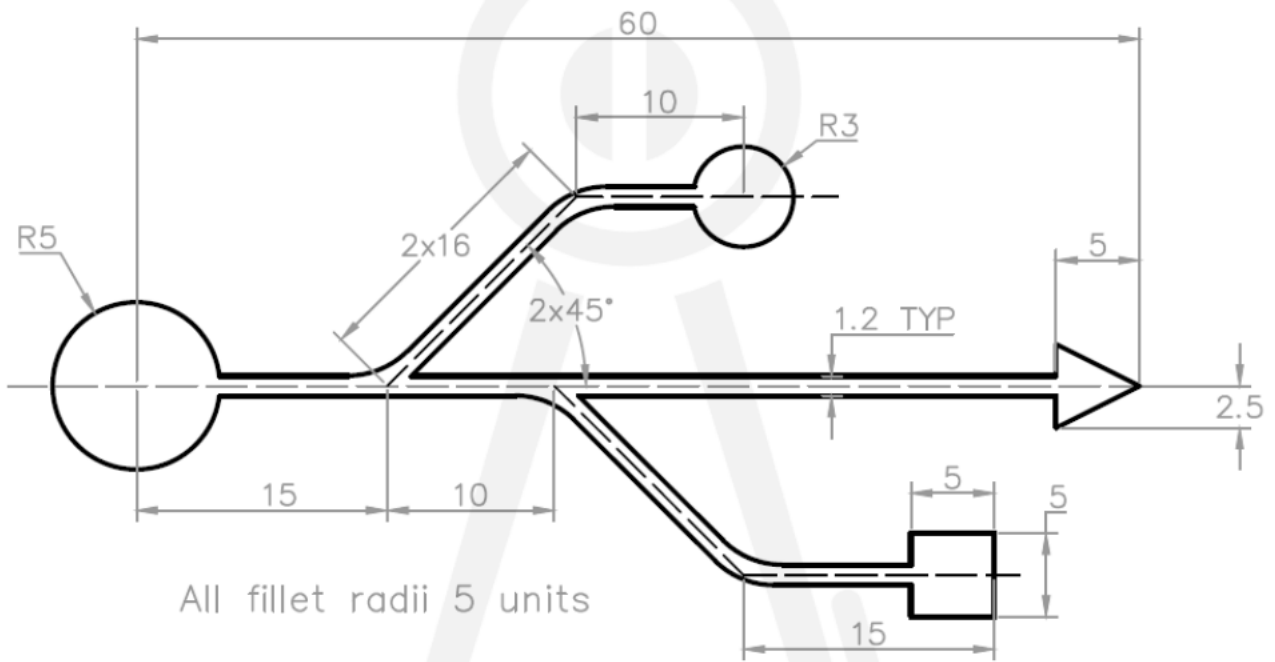
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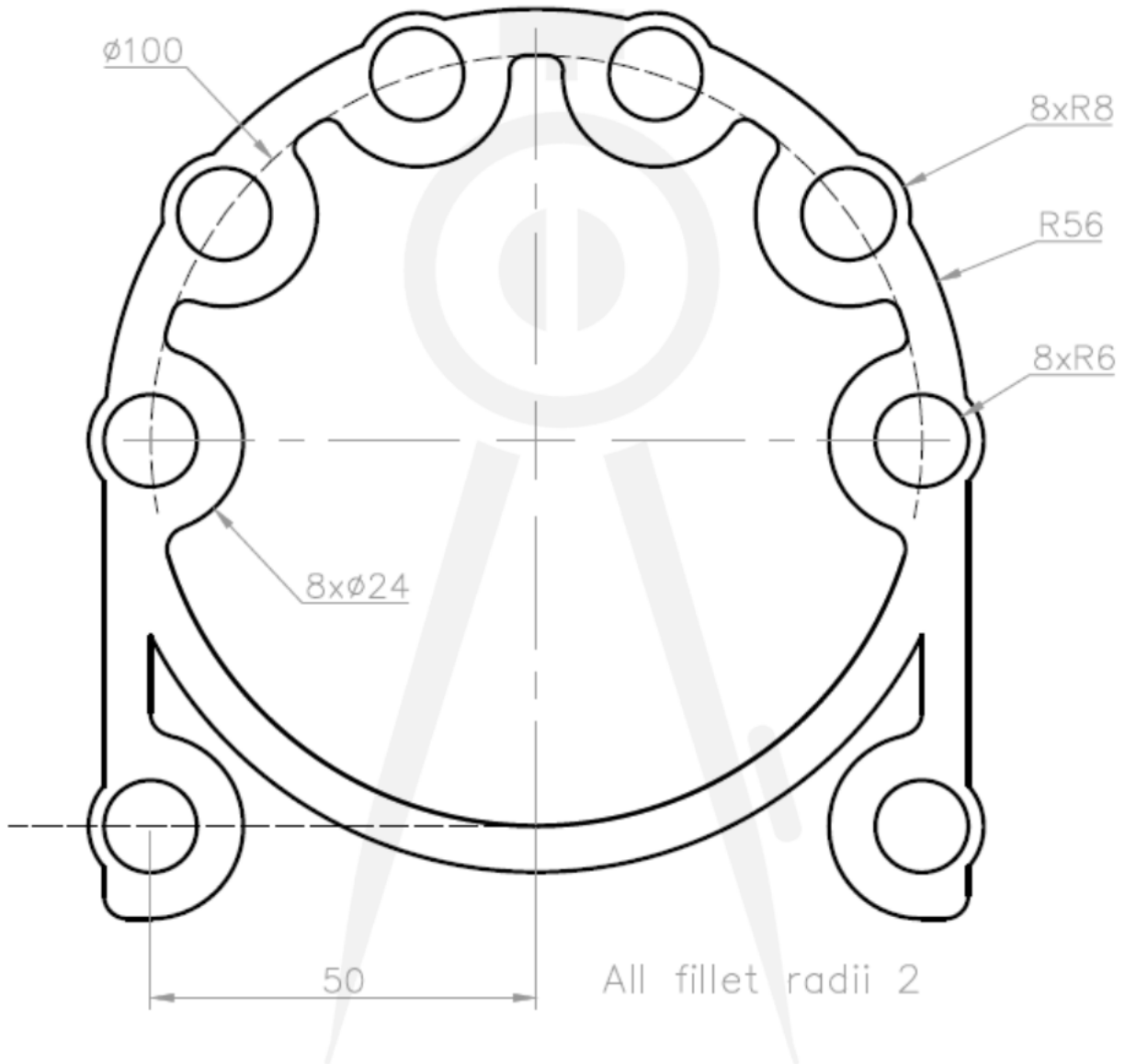


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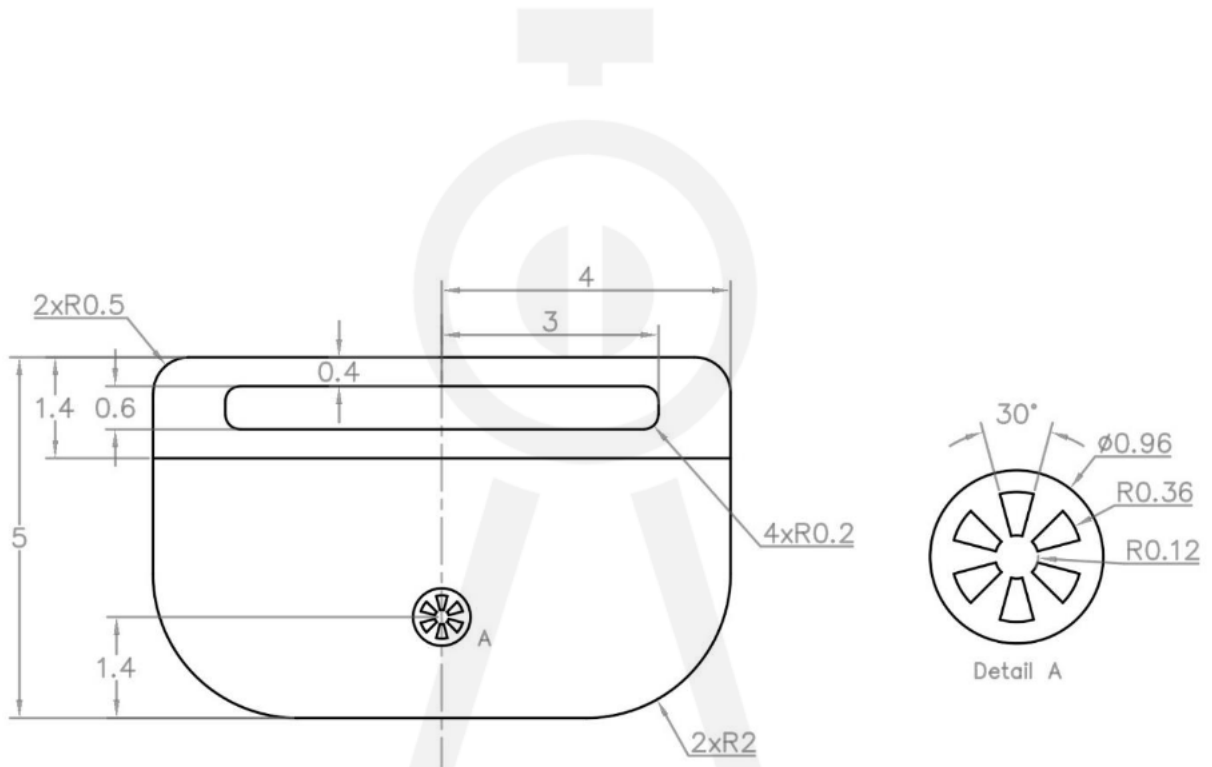


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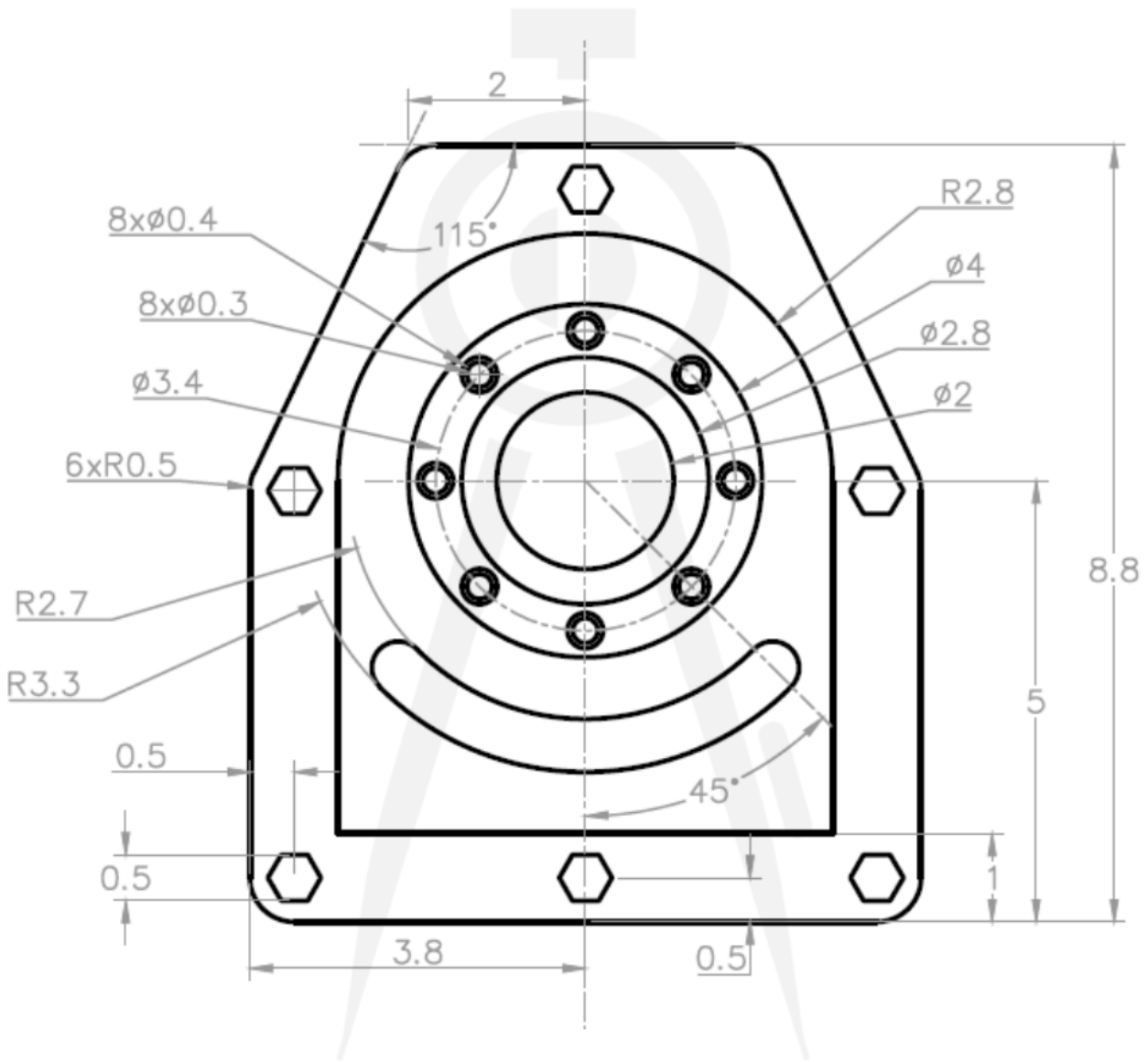




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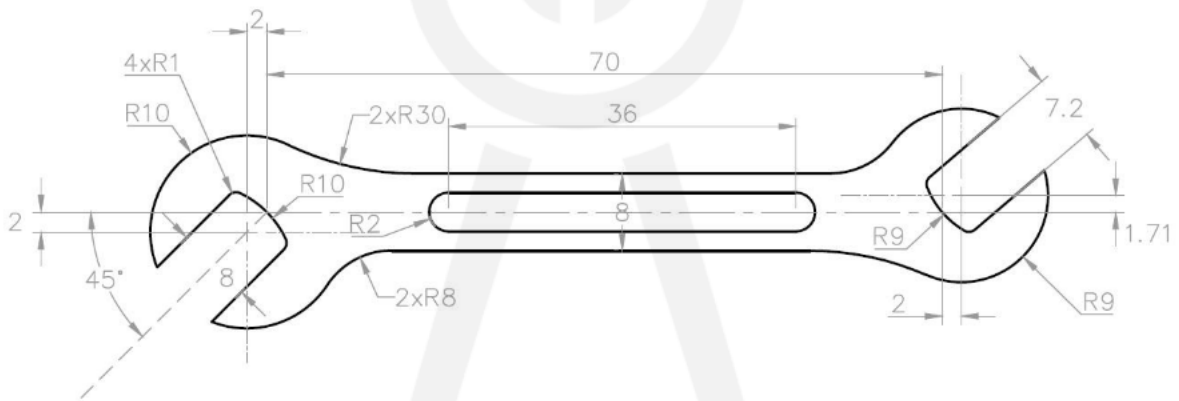


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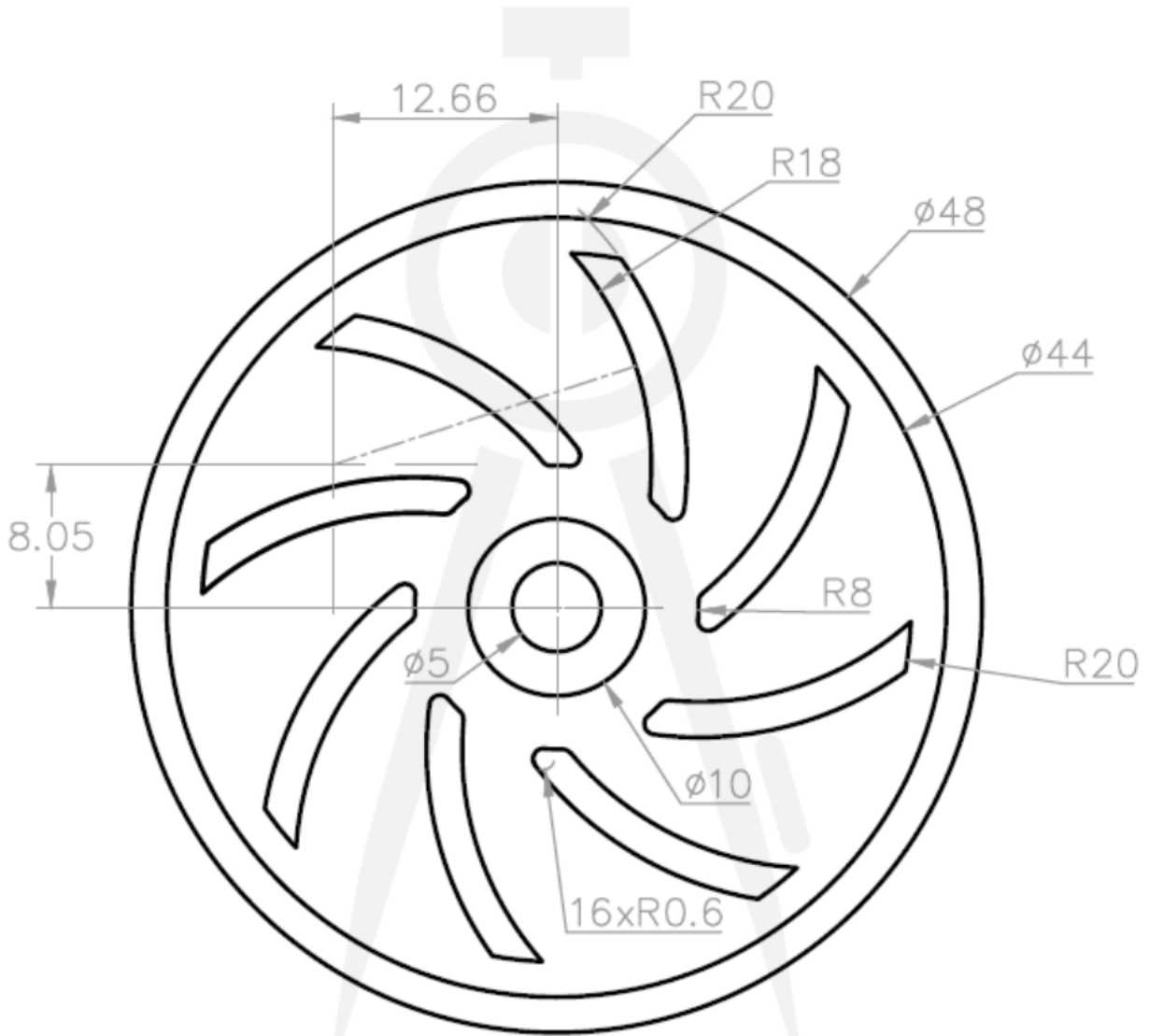


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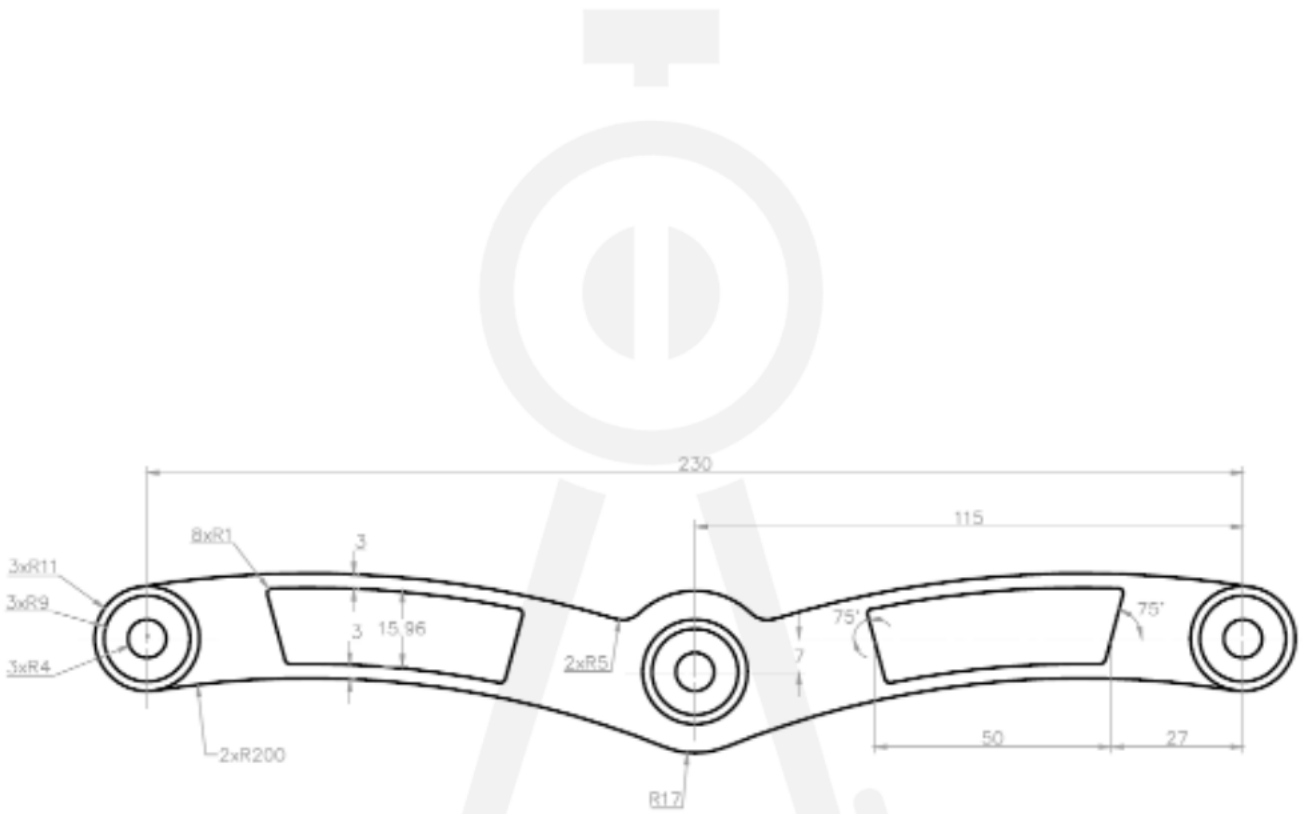




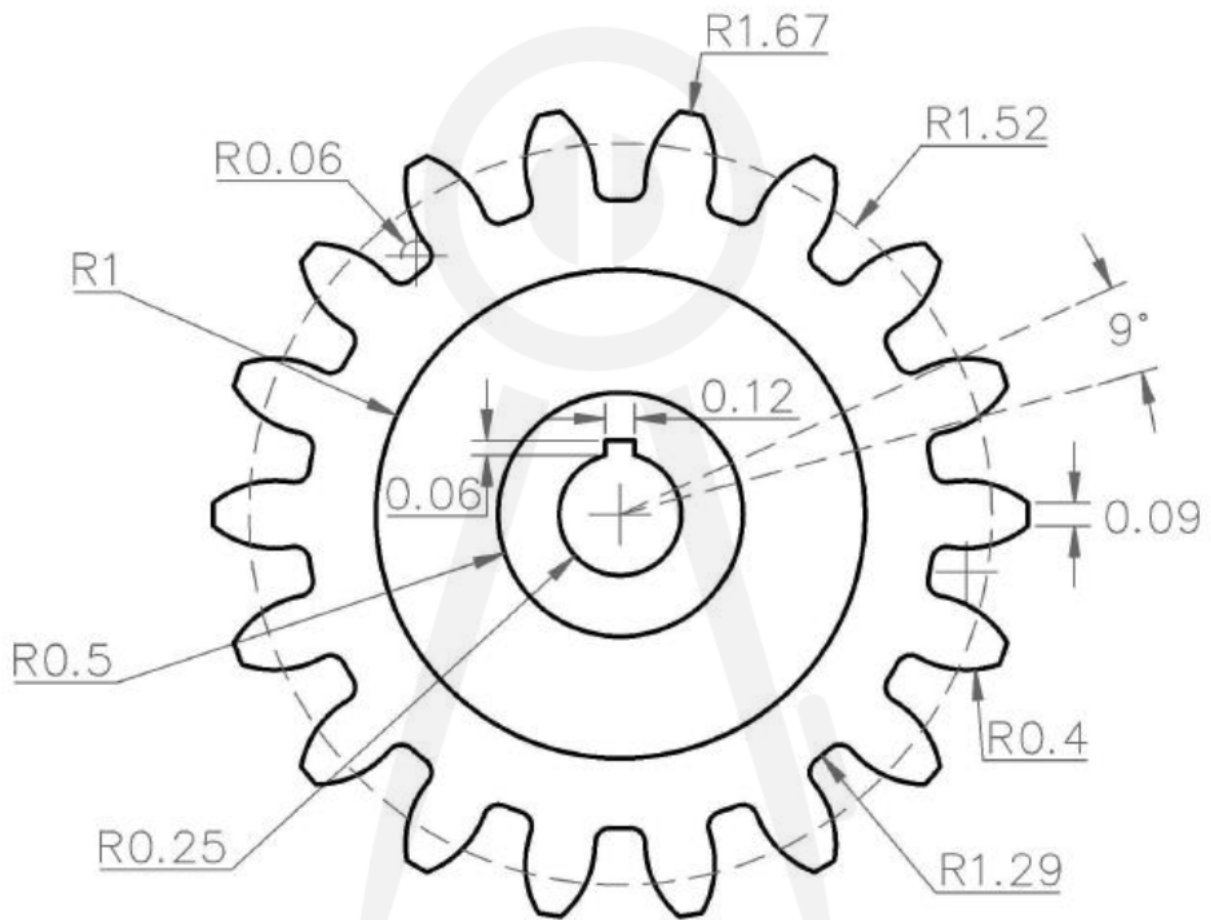
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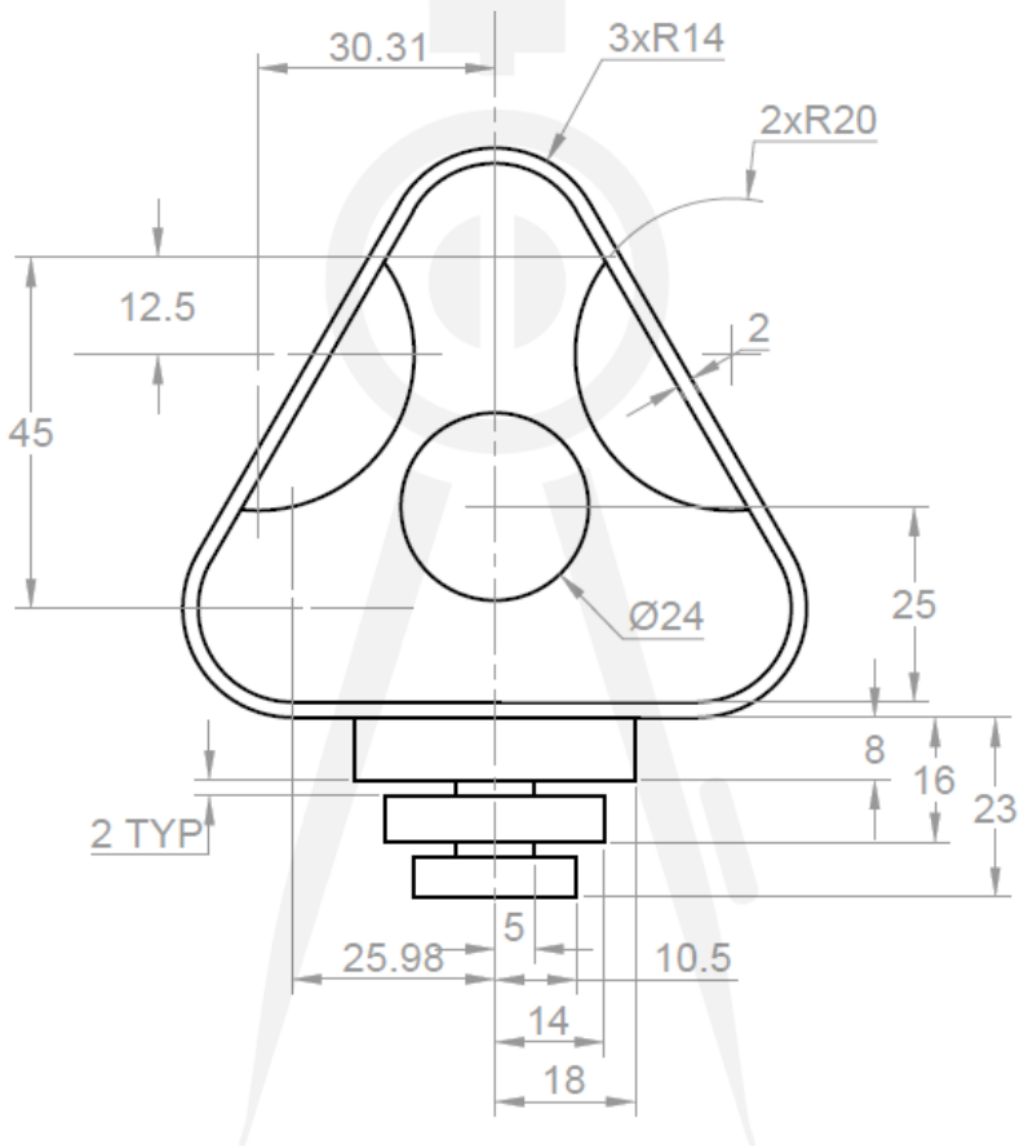
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2D-23

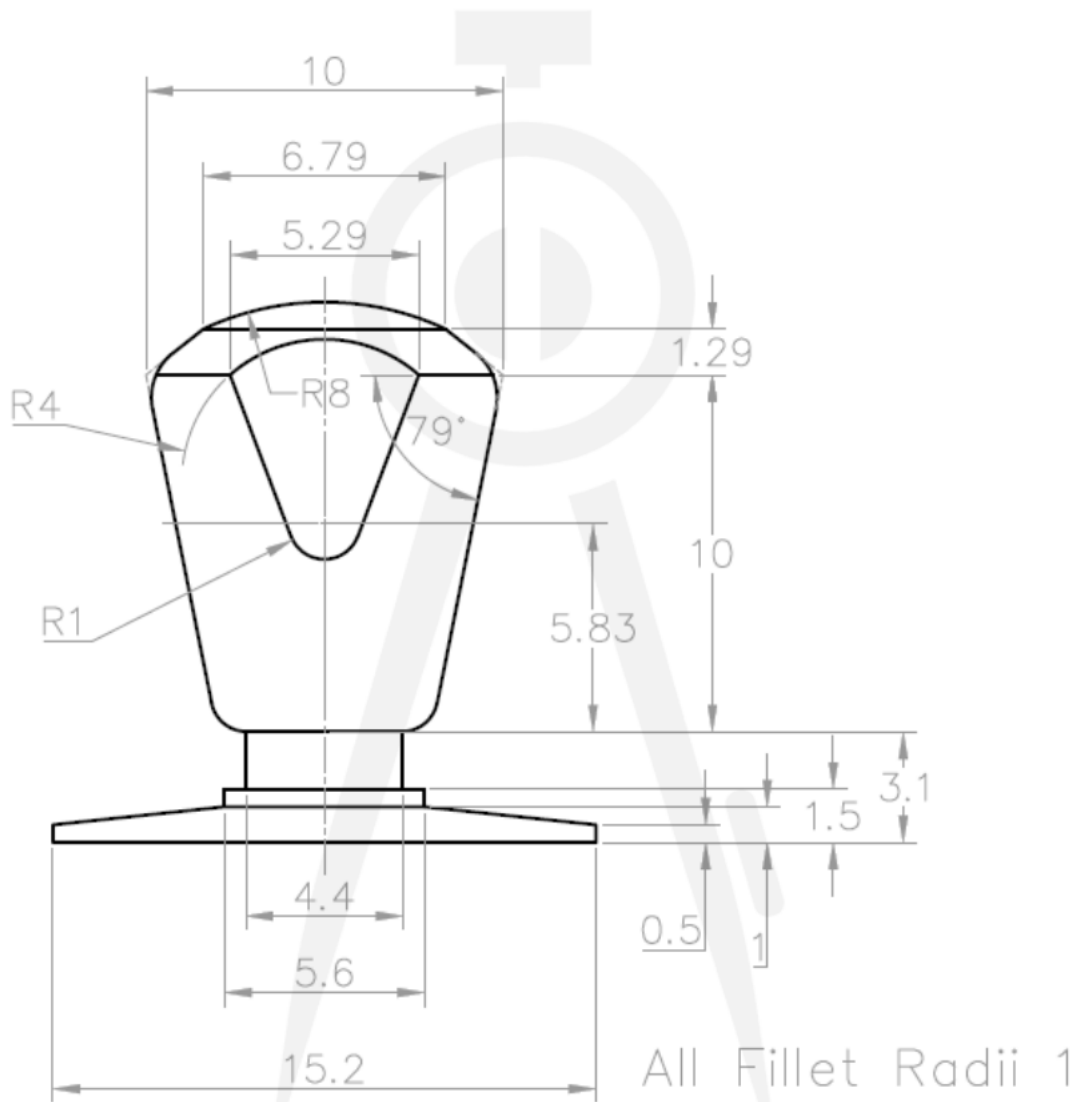


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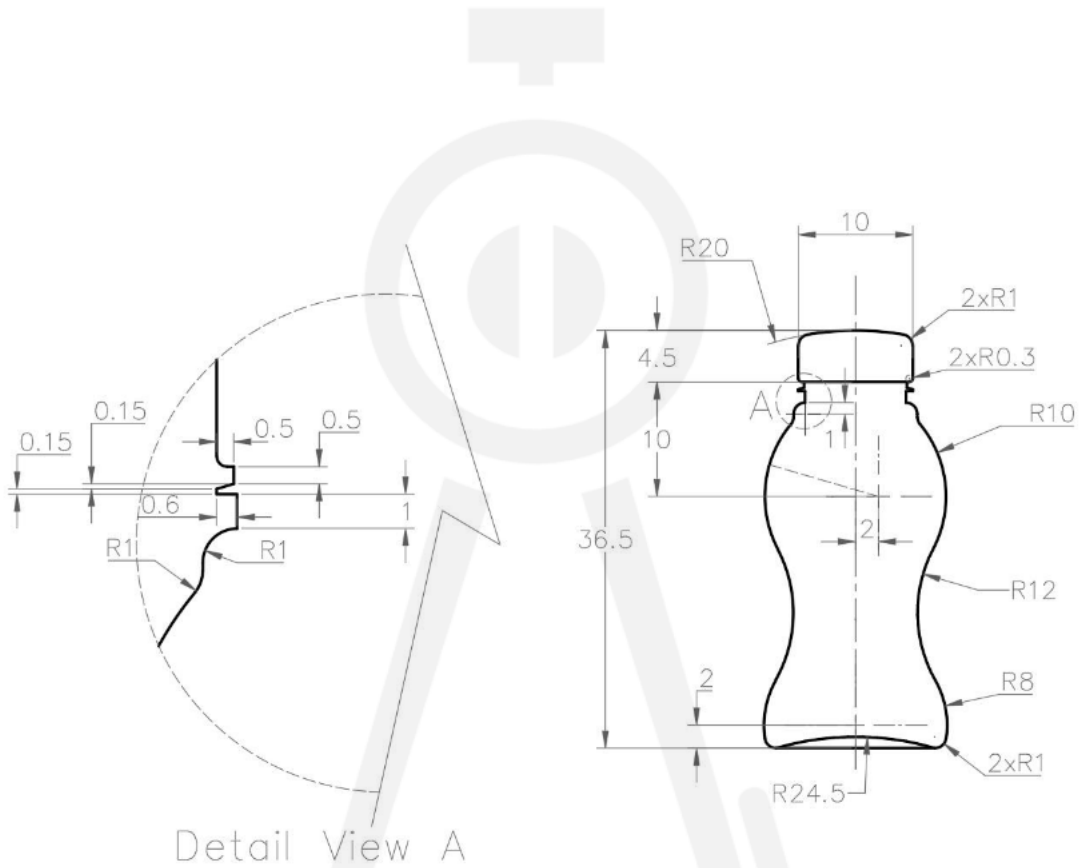


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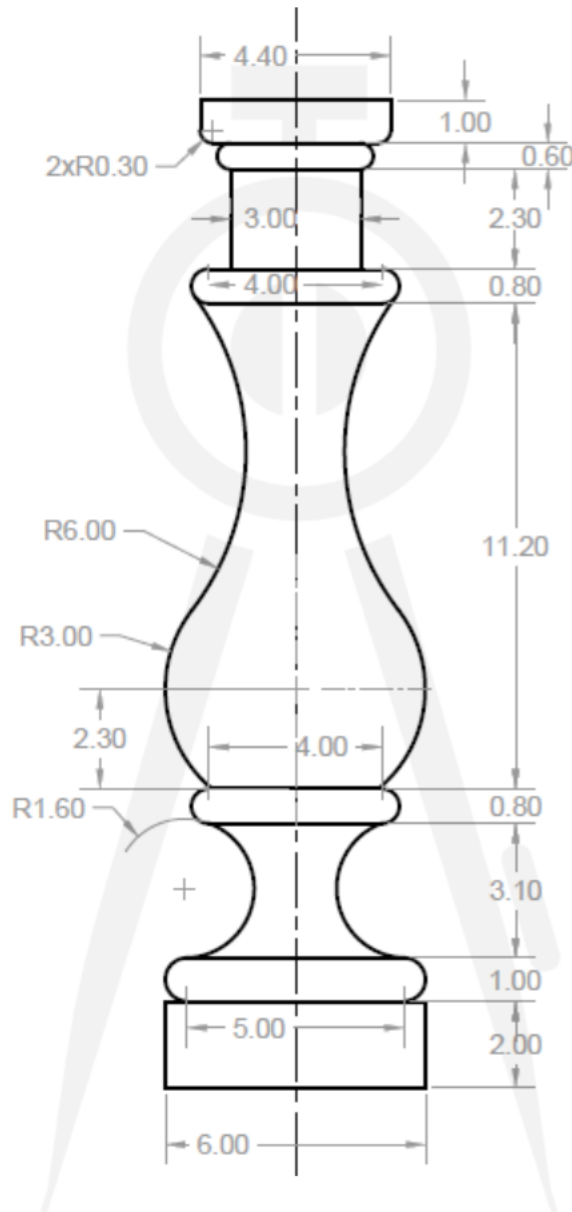


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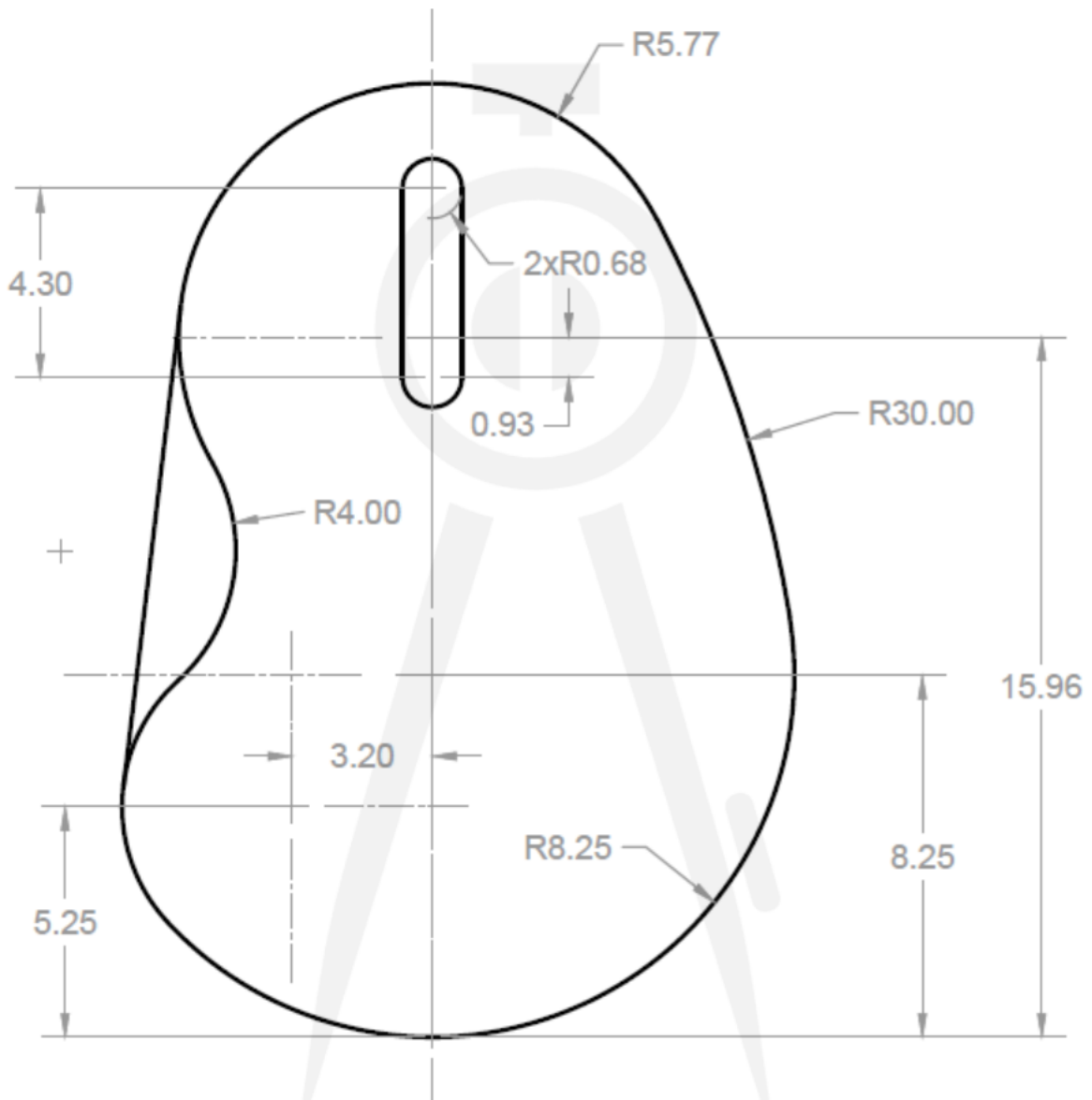


2D-28





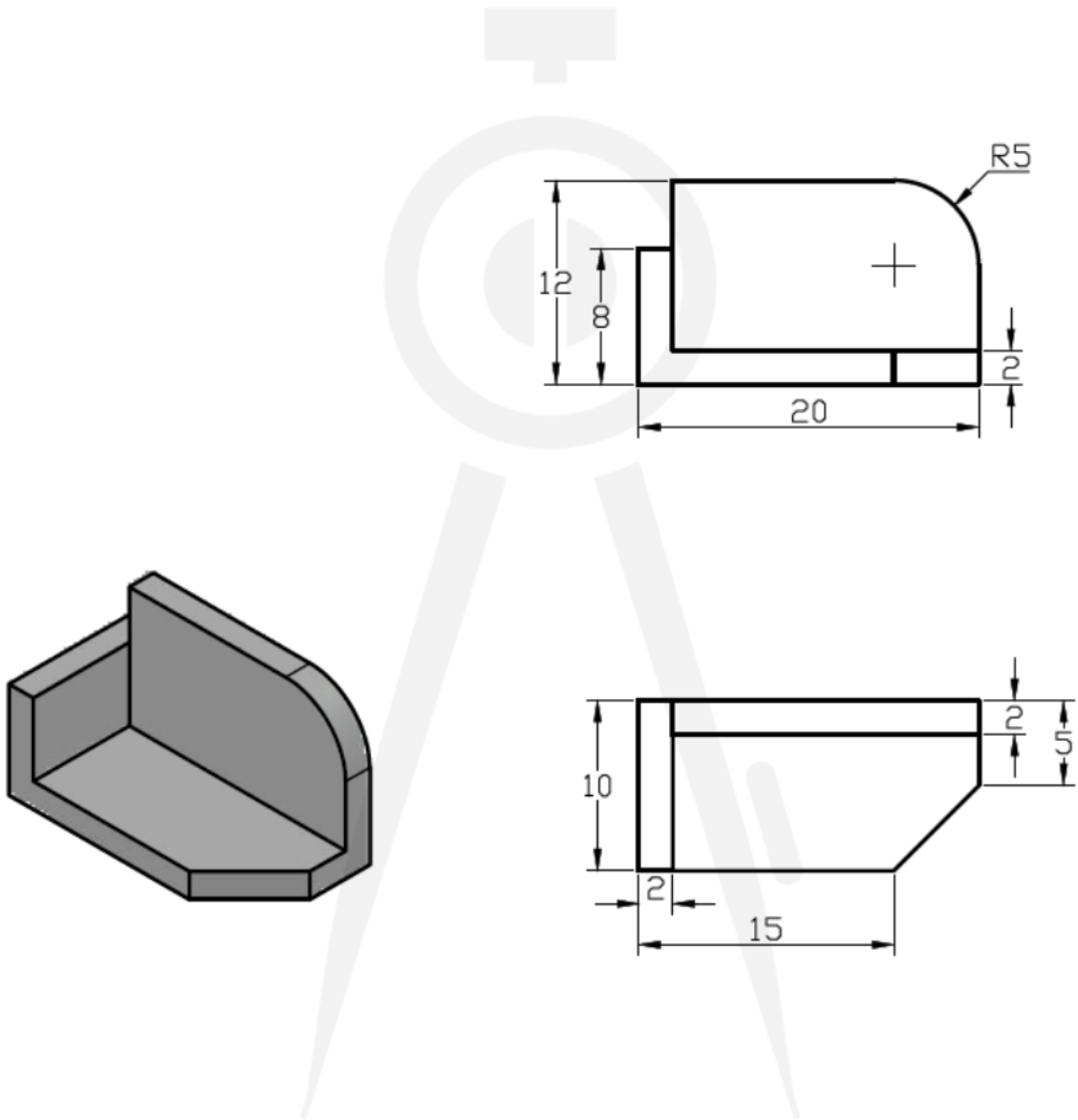
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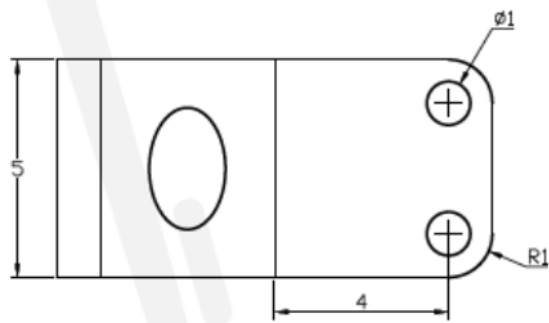
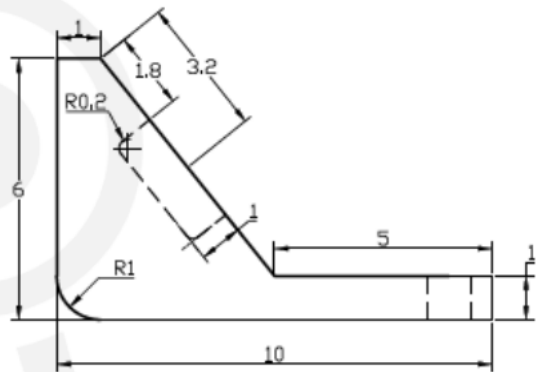
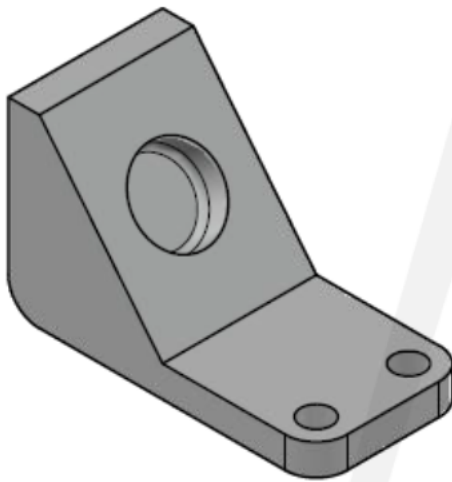
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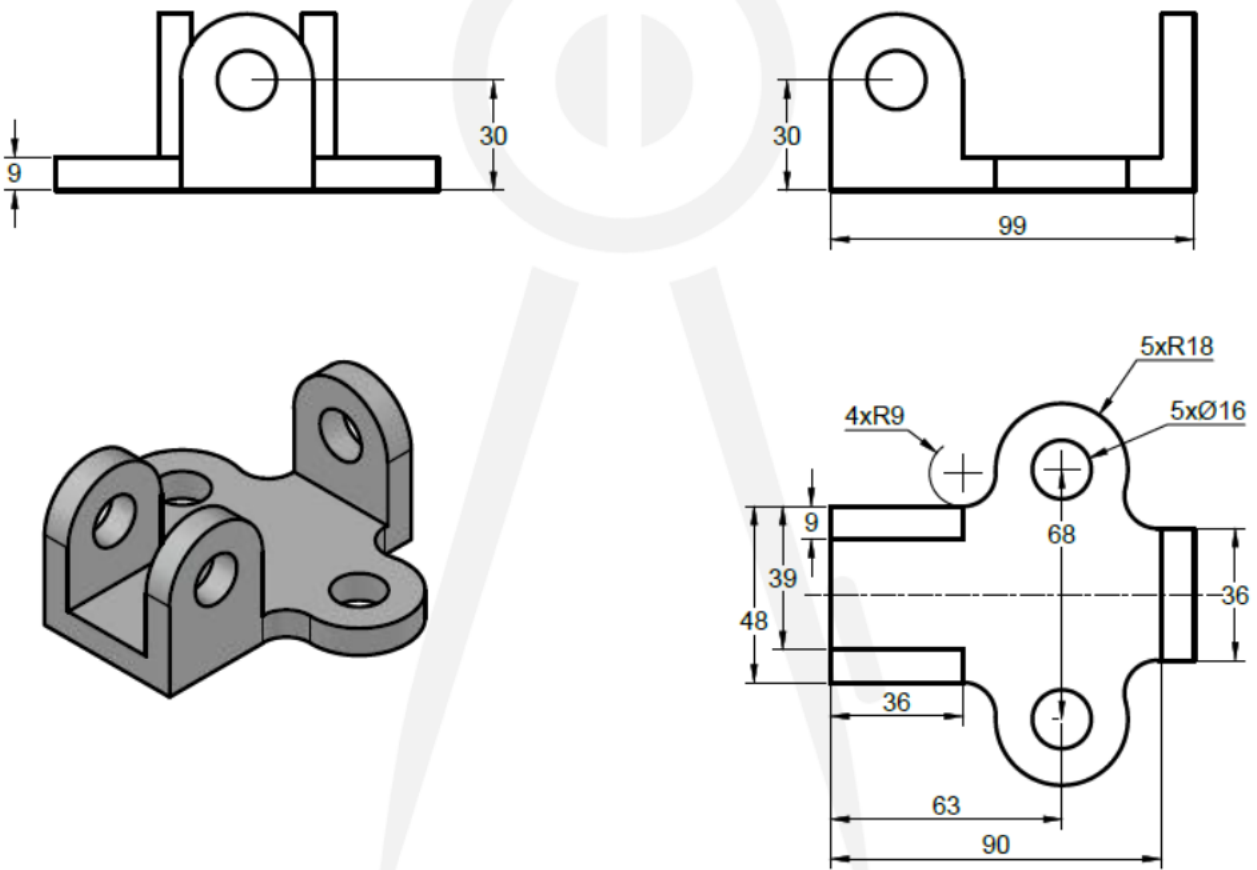
# 3D practice drawings



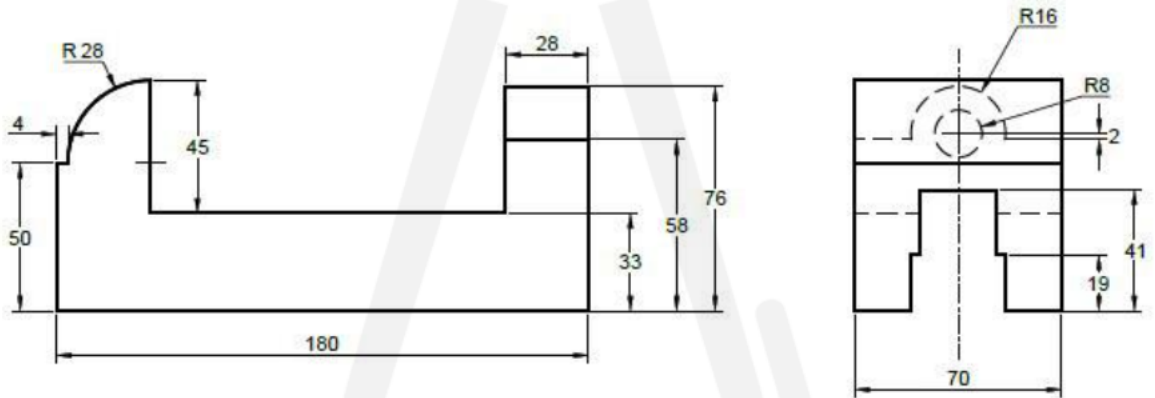
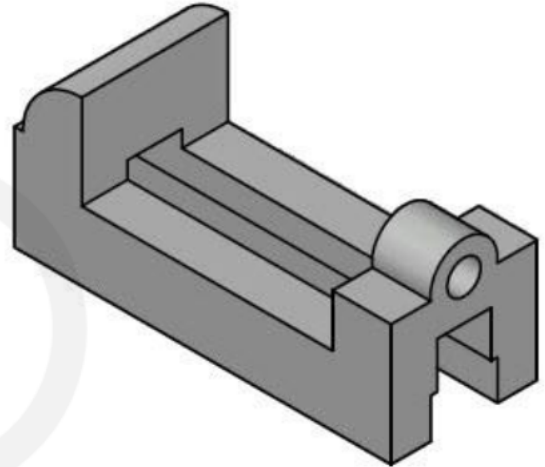
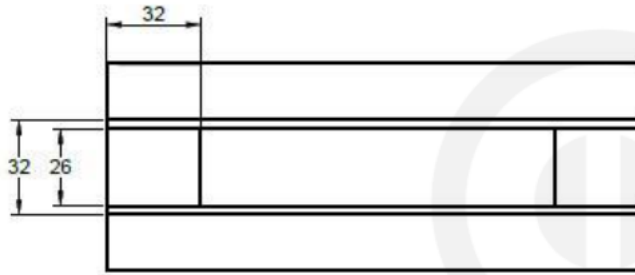
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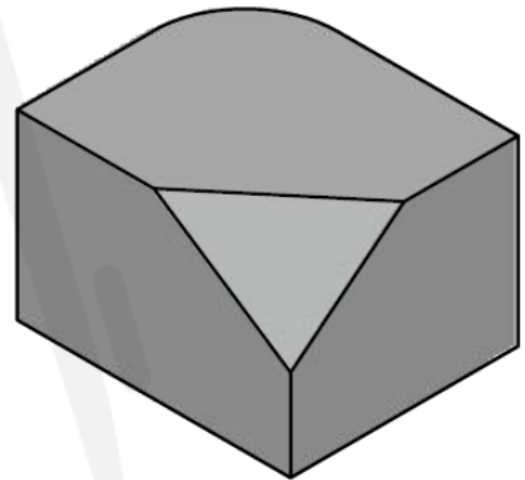
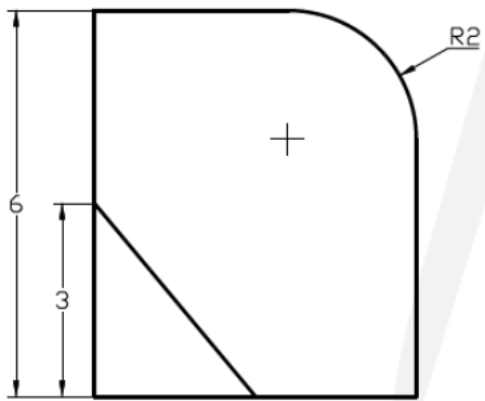
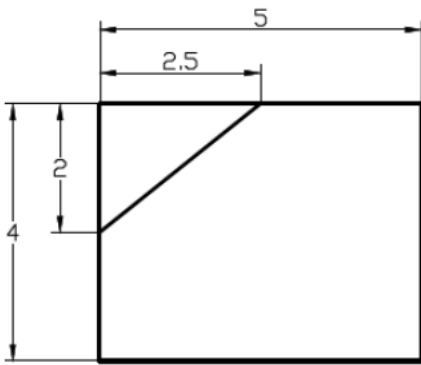
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3D-3

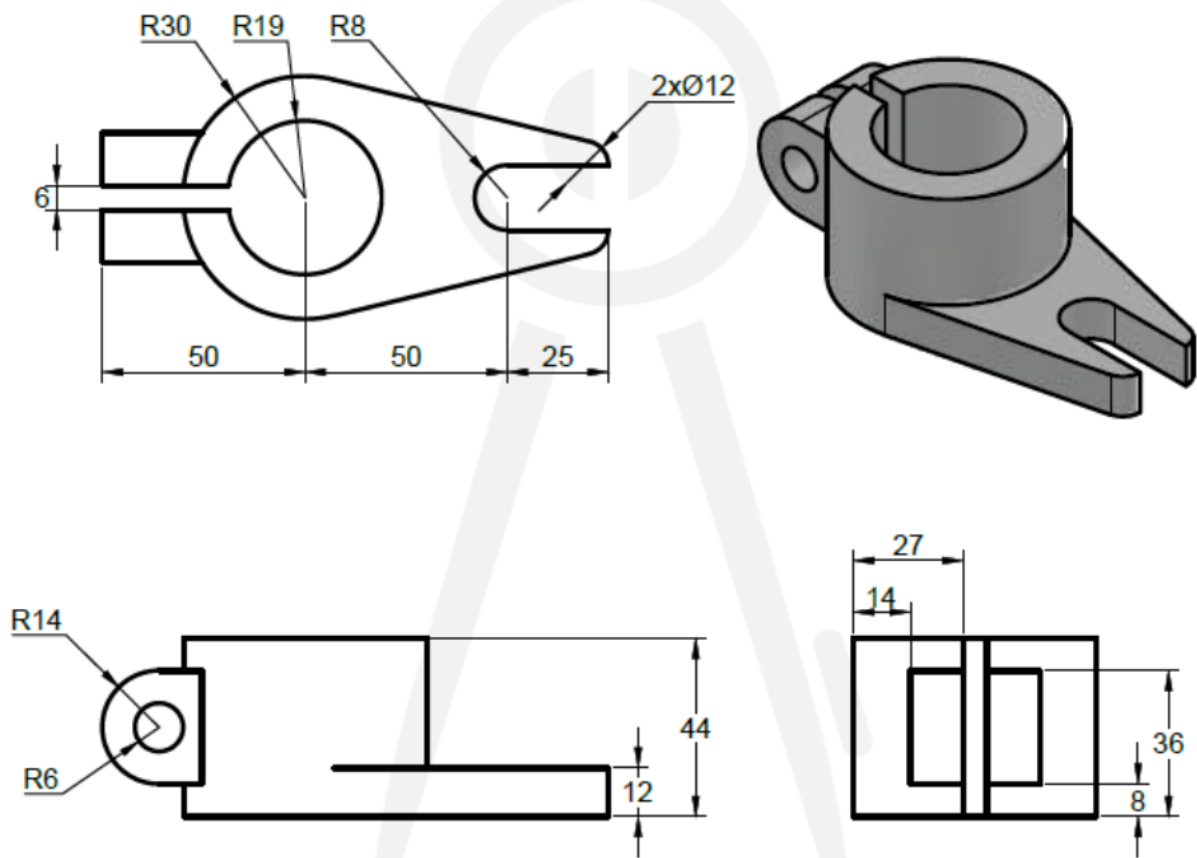


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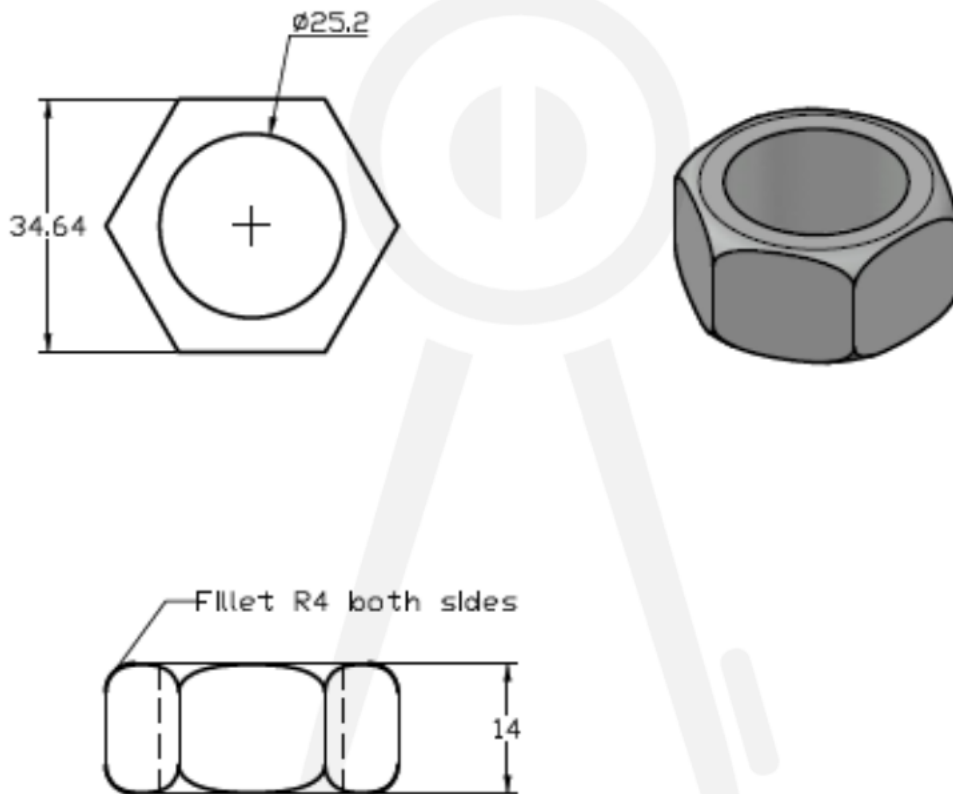


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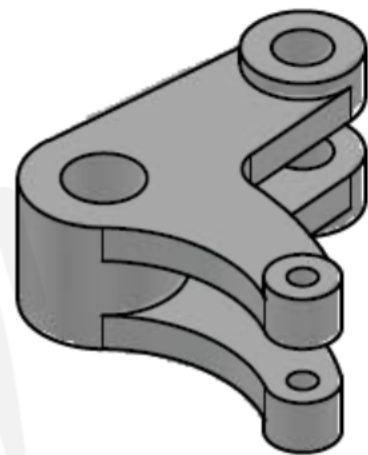
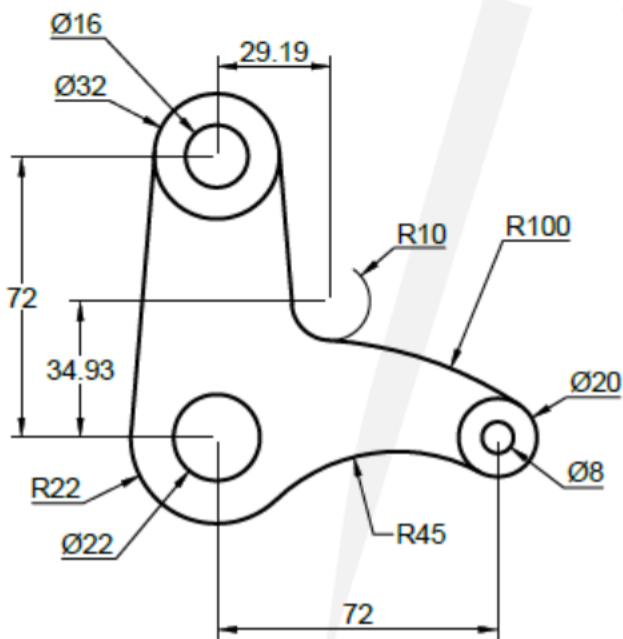
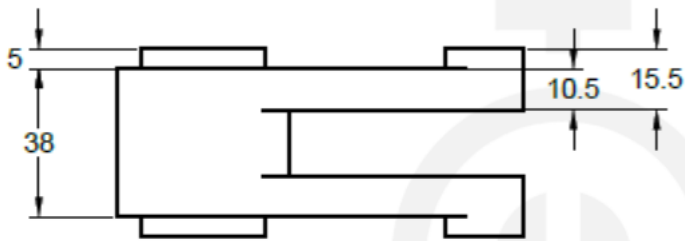




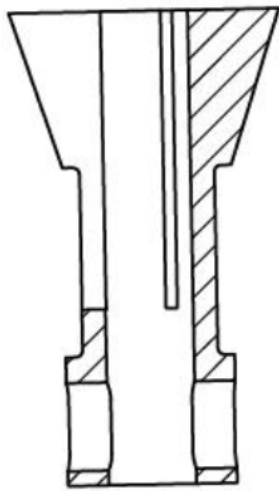
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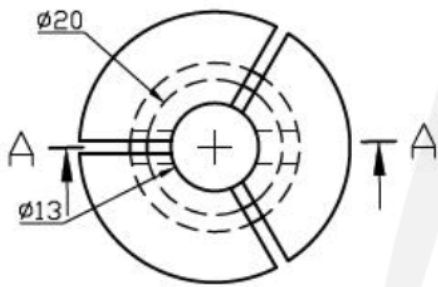
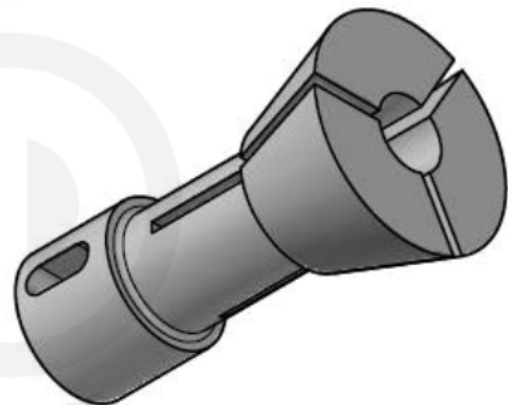
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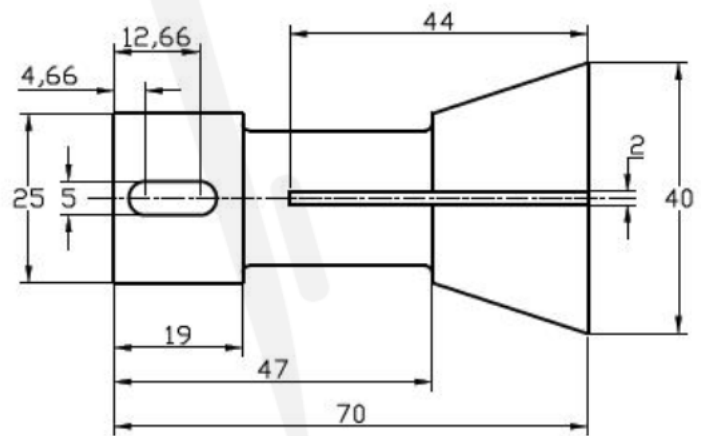
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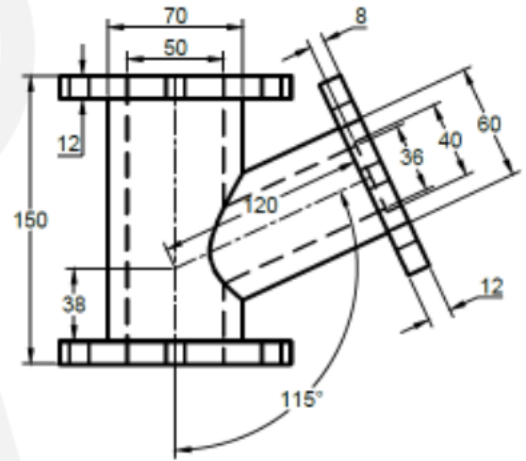
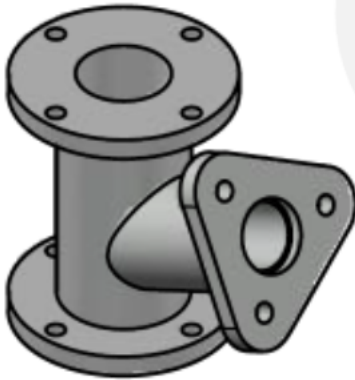
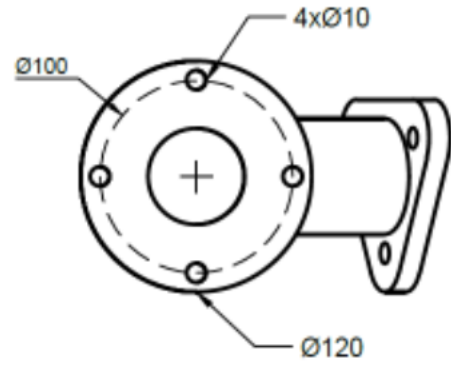
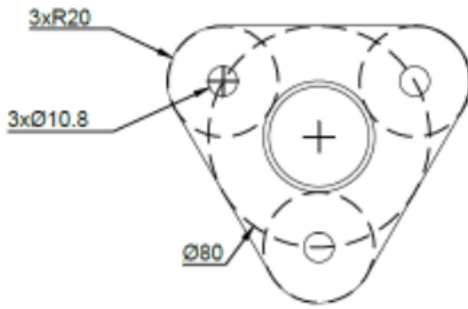
A-A (1:1)



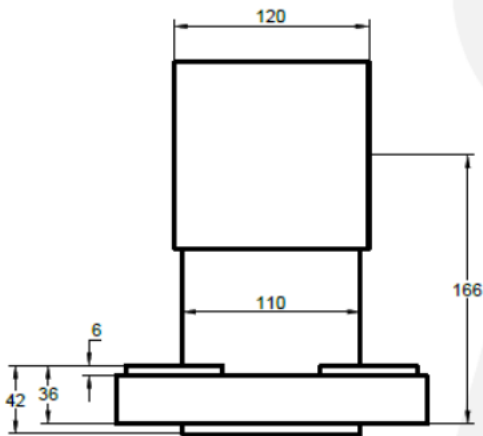
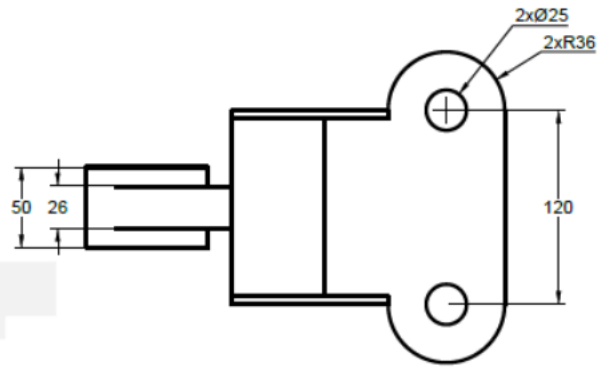
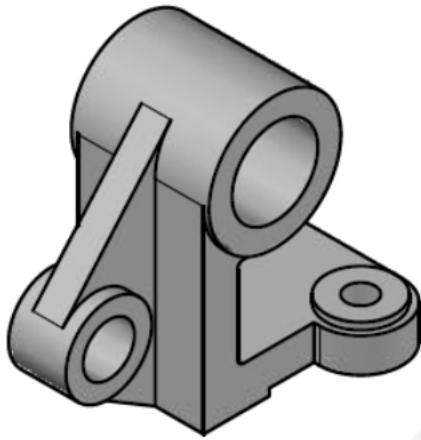
All Fillet RadII 1 Unit



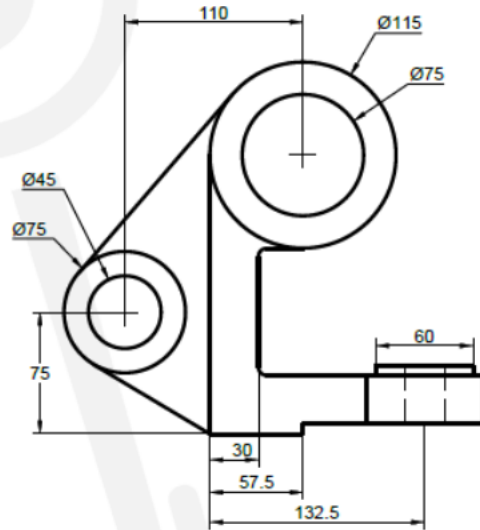
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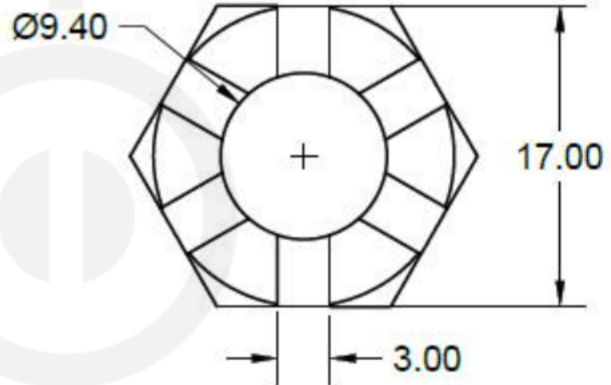
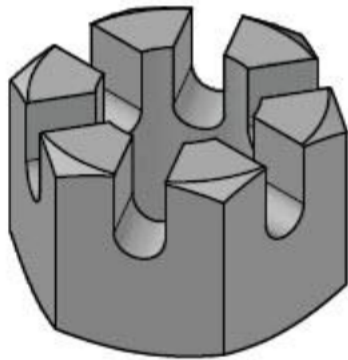
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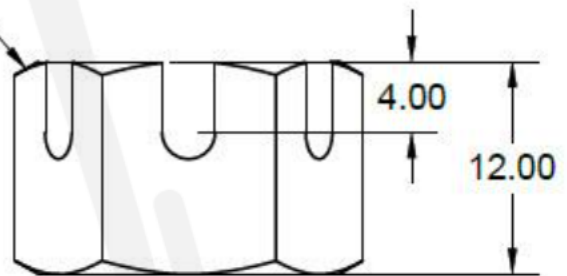
All Fillet radii 5 units



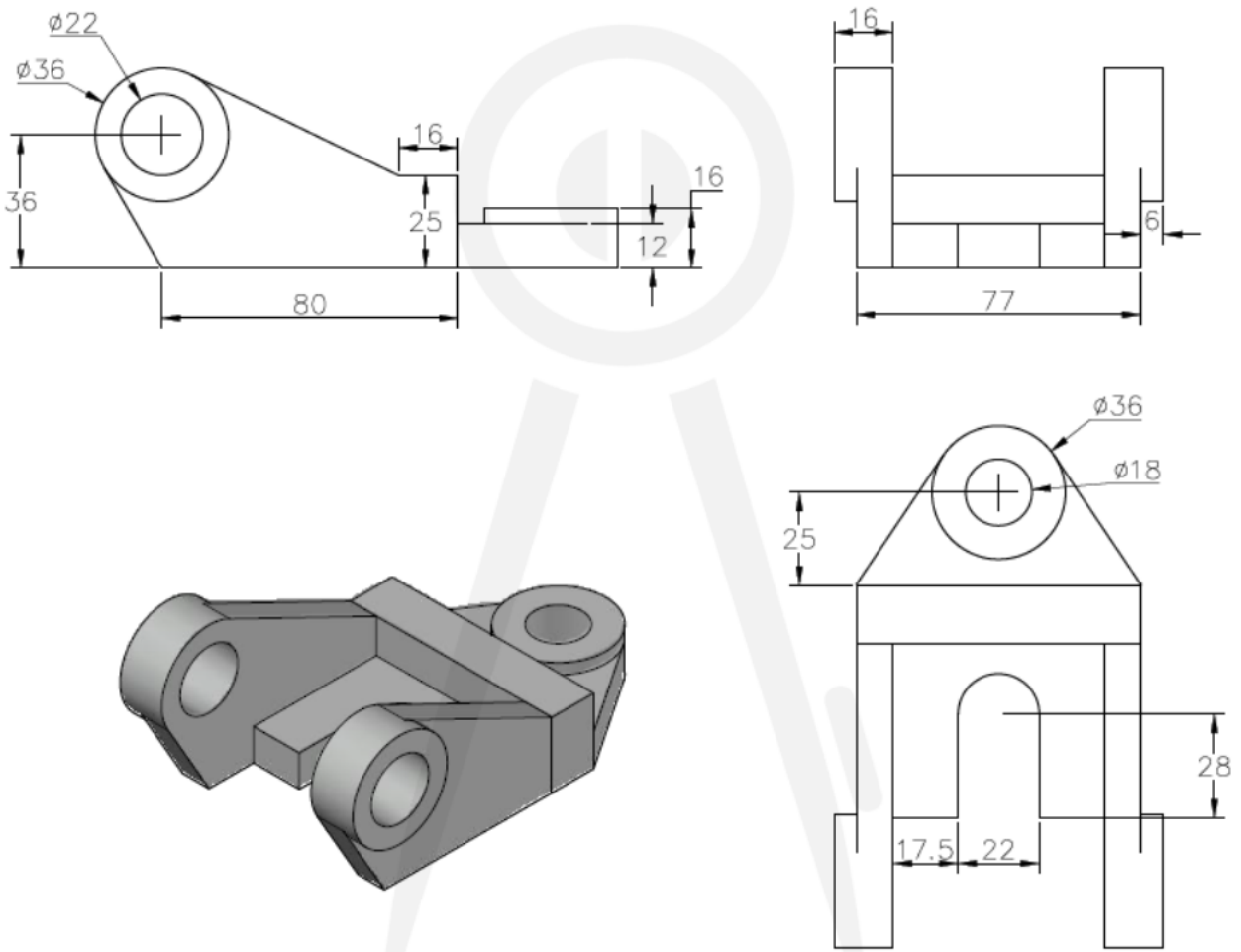
3D-11



30° incline from quadrant of top circle or dia 17

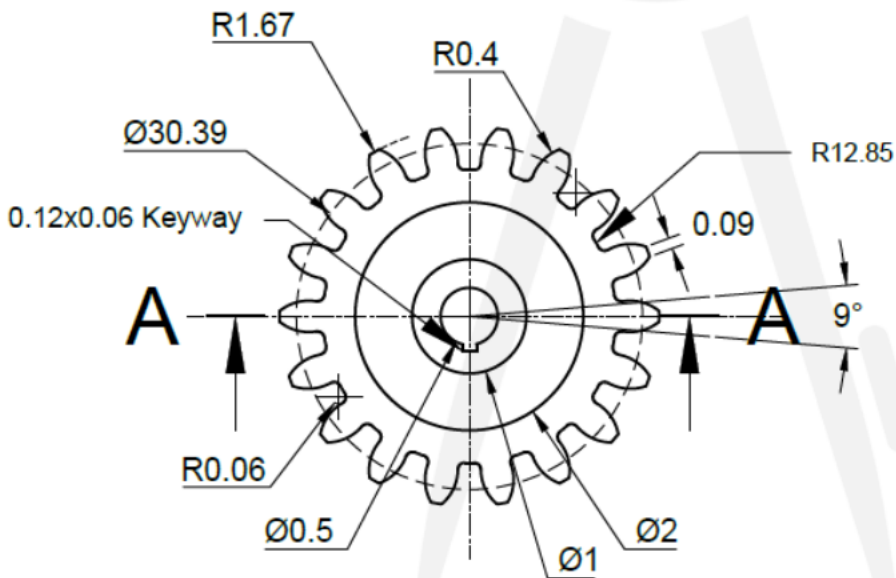
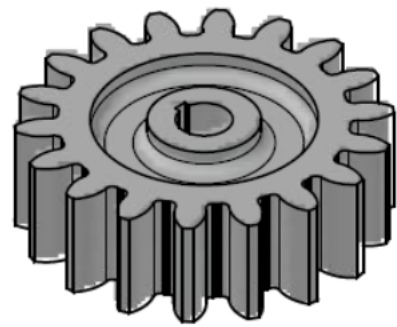
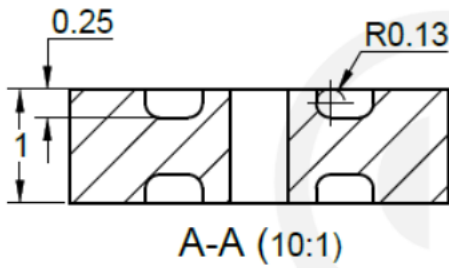


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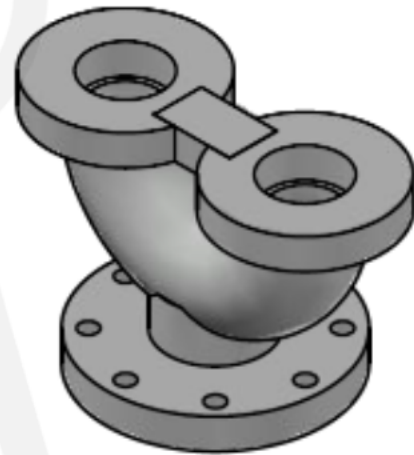
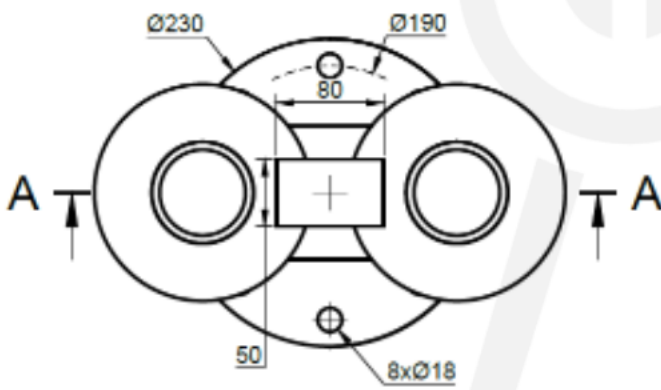
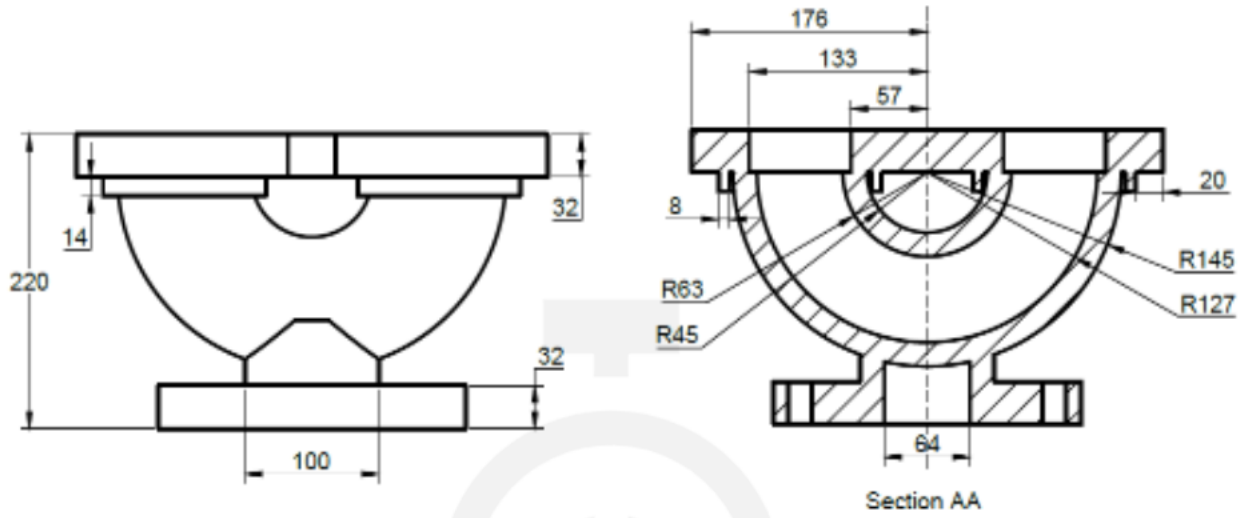


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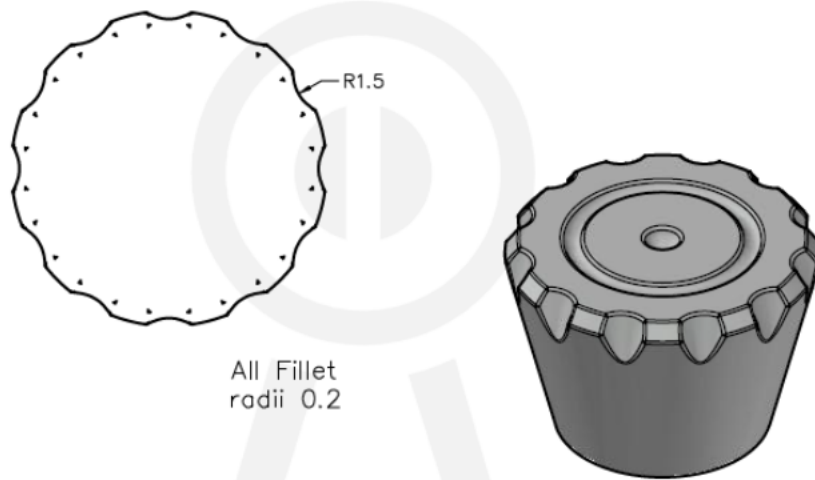




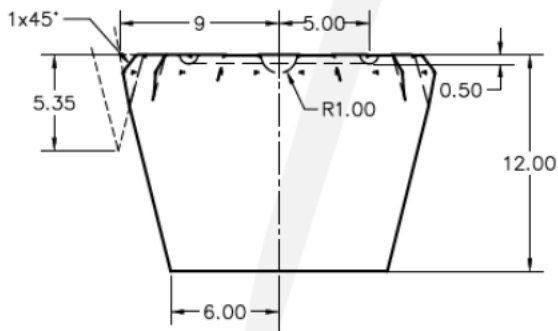
Not an actual gear, for representation only



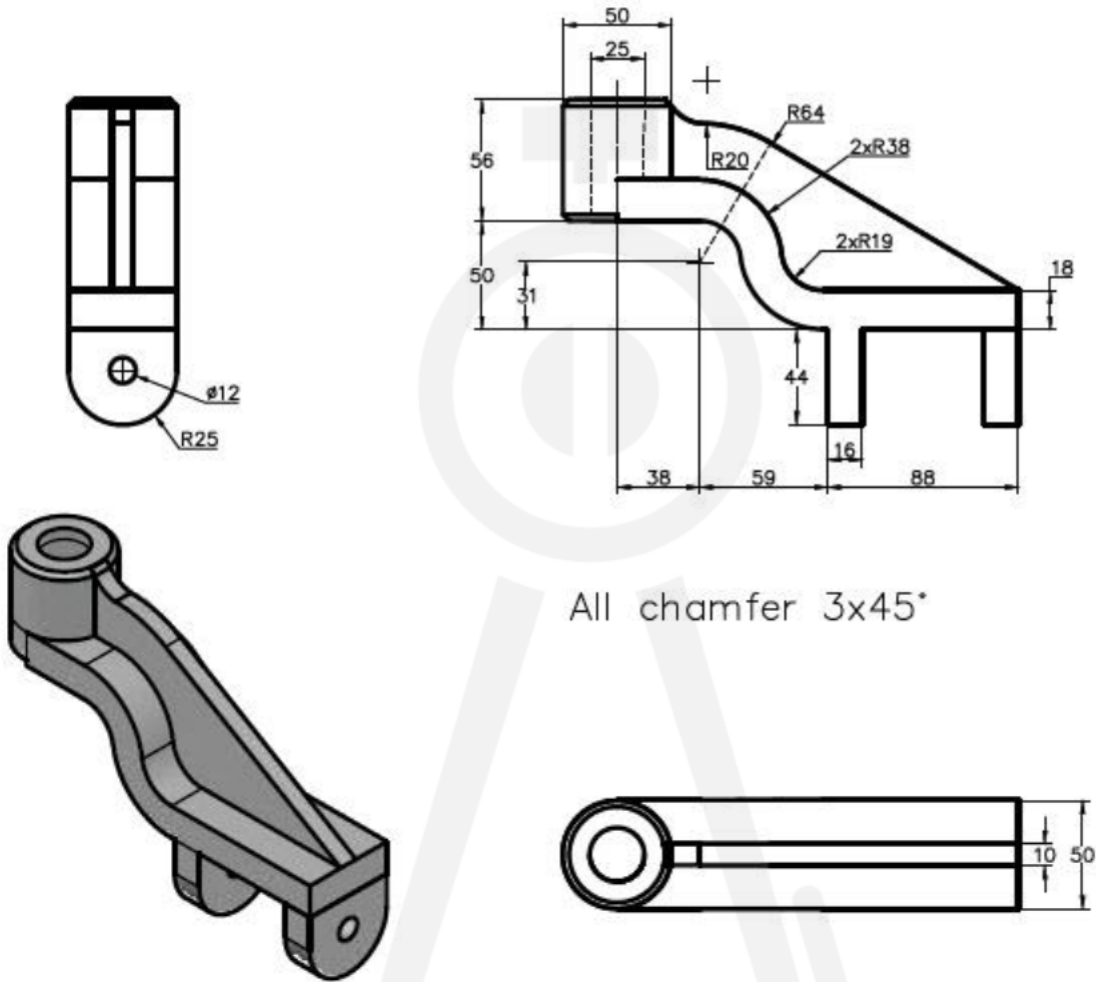
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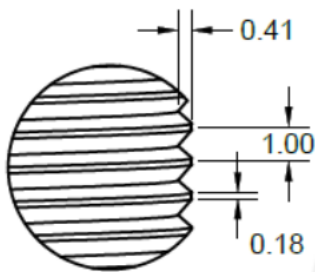
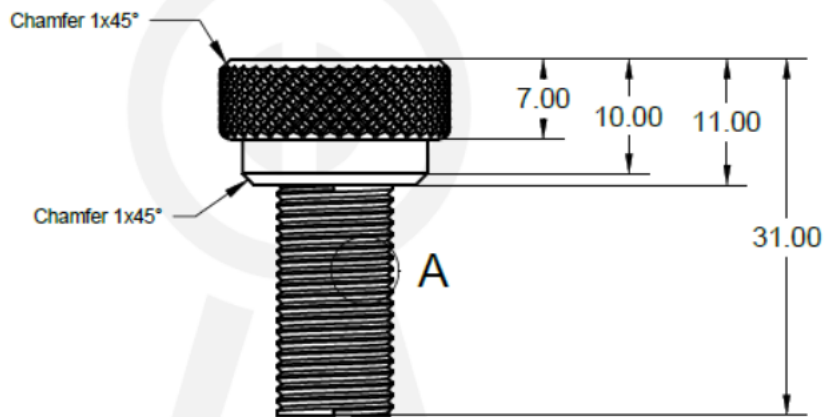
All Fillet radii 0.2



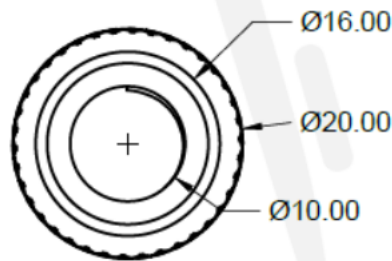
3D-16



3D-17

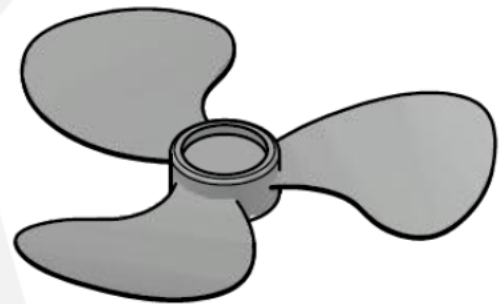
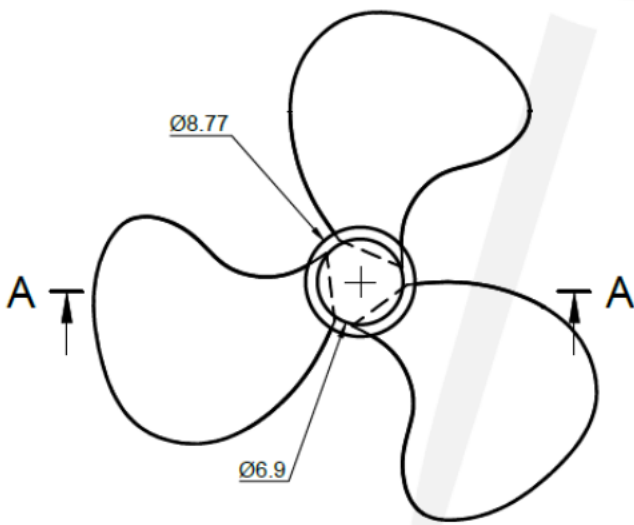
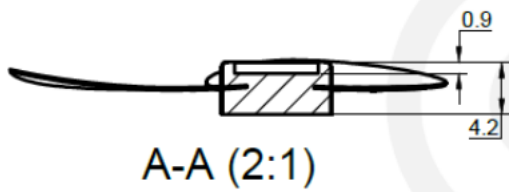


DETAIL A  
SCALE 1:4

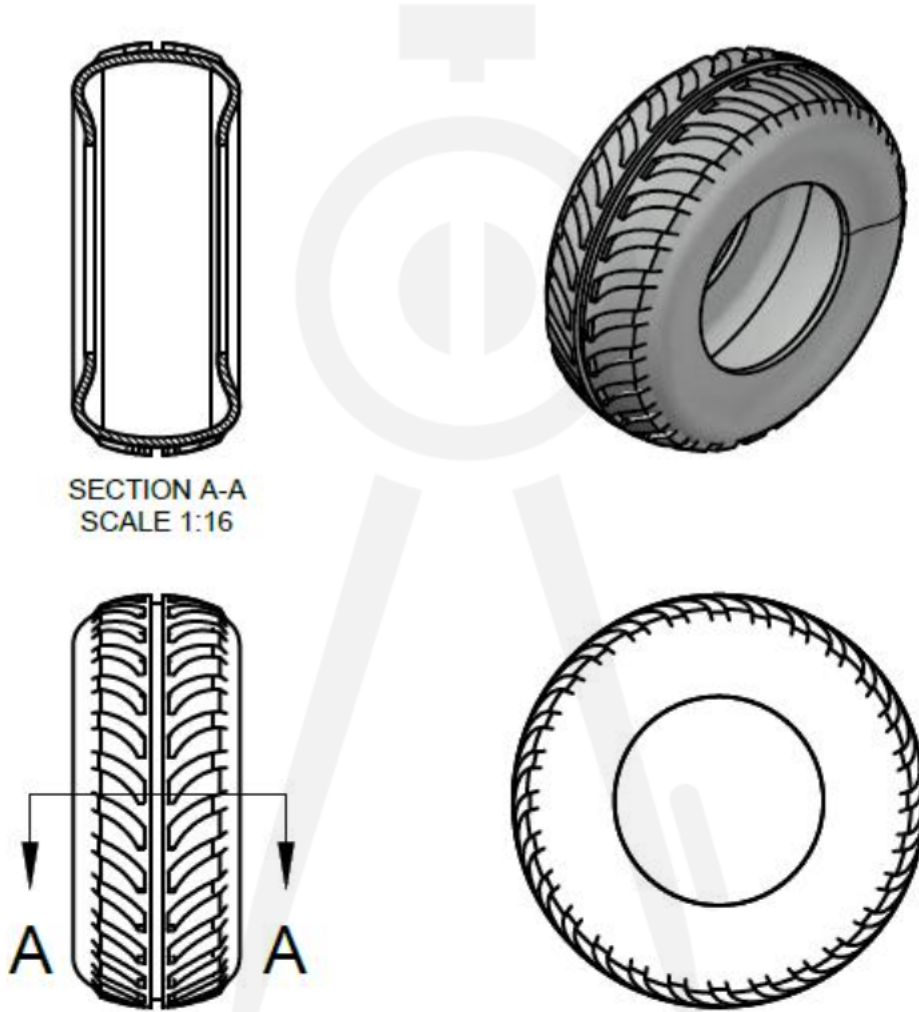


Make diamond knurling as per your own specifications or follow the explanation video on <https://goo.gl/e9HuzN>

3D-18



Use profile of fan blade in top view to trace the geometry.

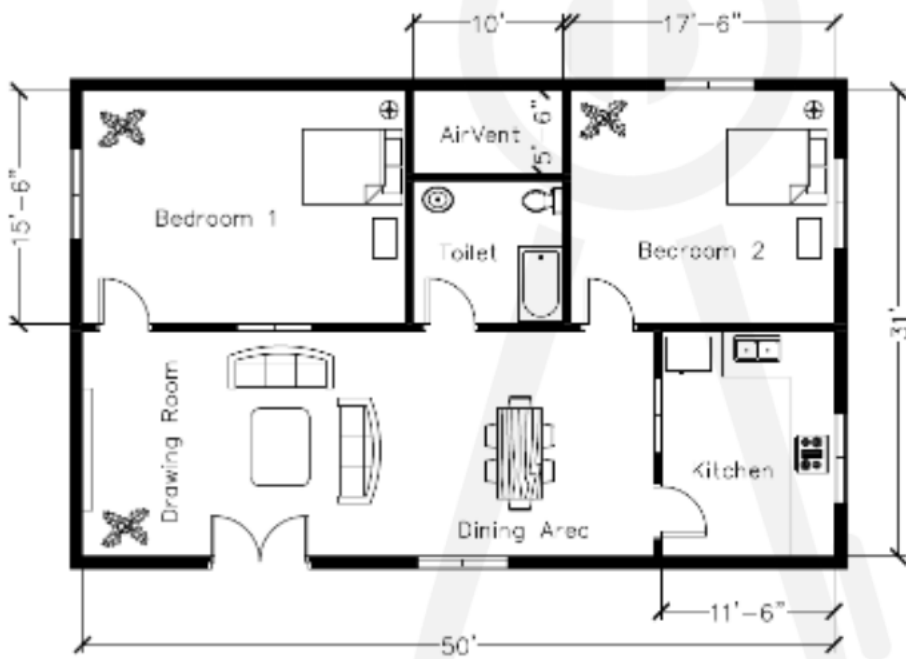


Use the image here as overlay to make the shape or use the video explanation from here <https://goo.gl/VVSBQe>

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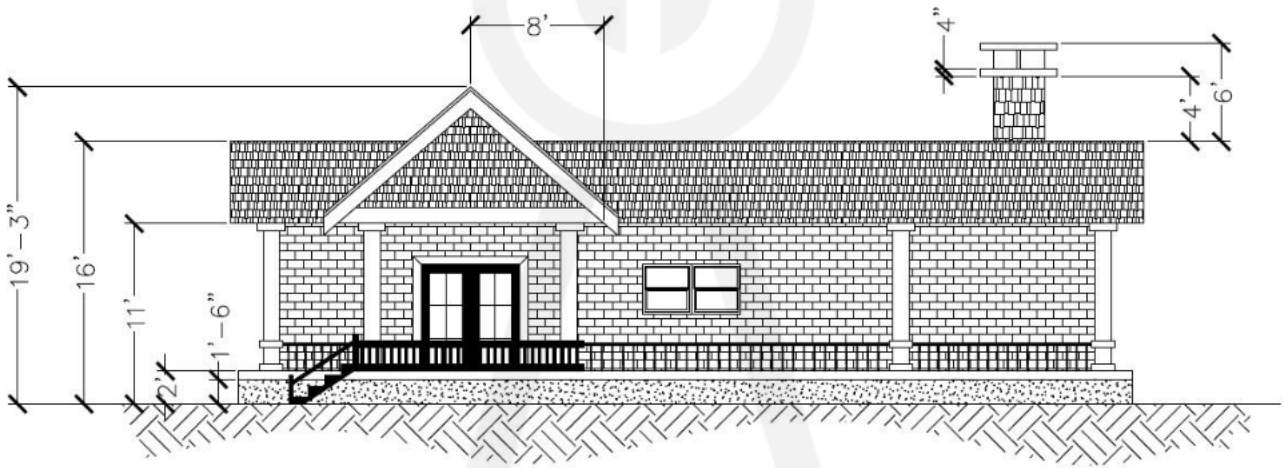
projects  
drawings





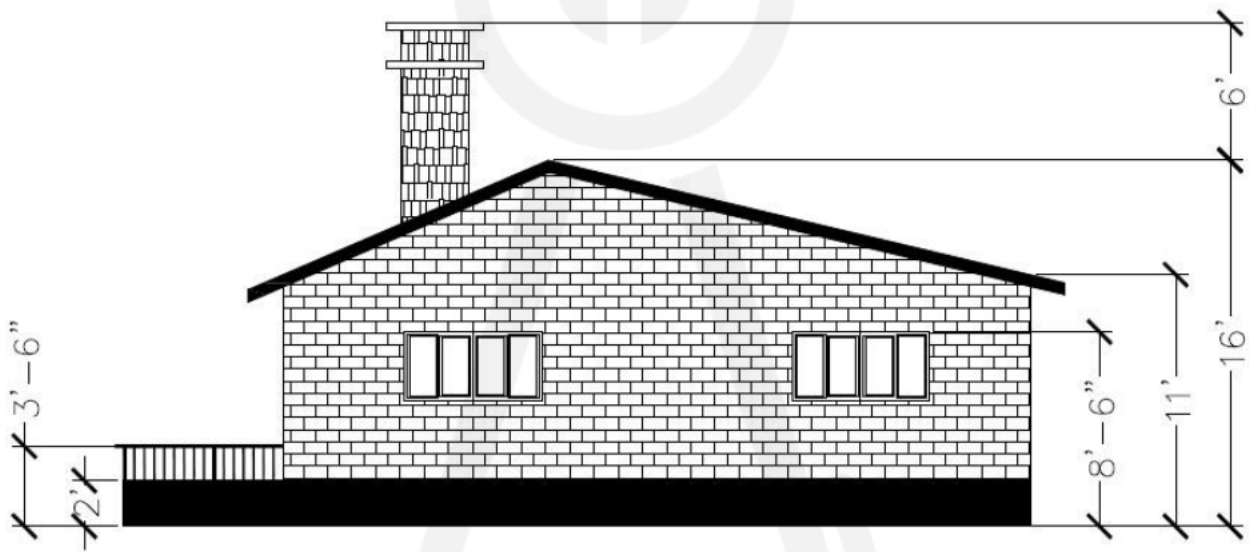
Note:  
Exterior wall thickness is 10"  
Interior wall thickness is 6"  
Use design center for blocks

**Project 1 – Floor Plan**



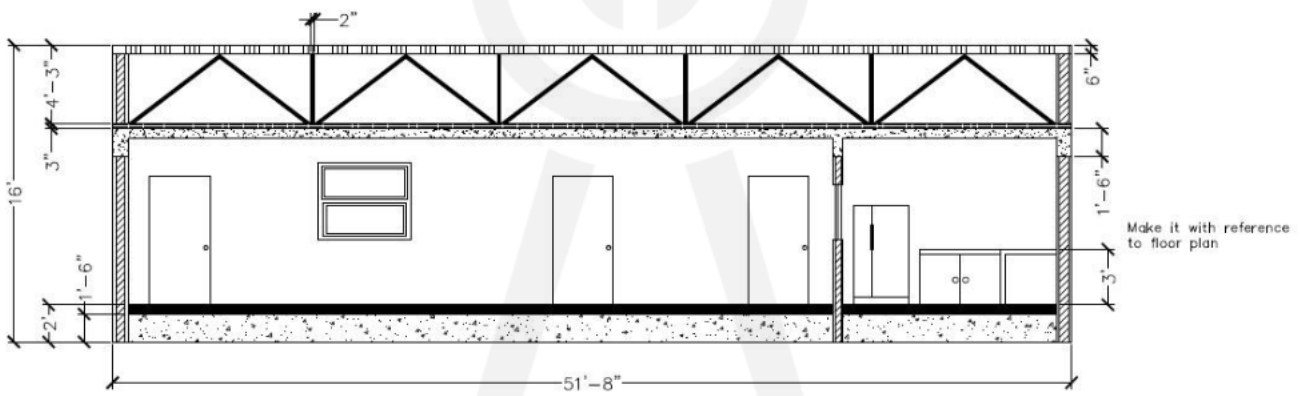
Use Floor plan for reference

**Project 2 - Front Elevation**



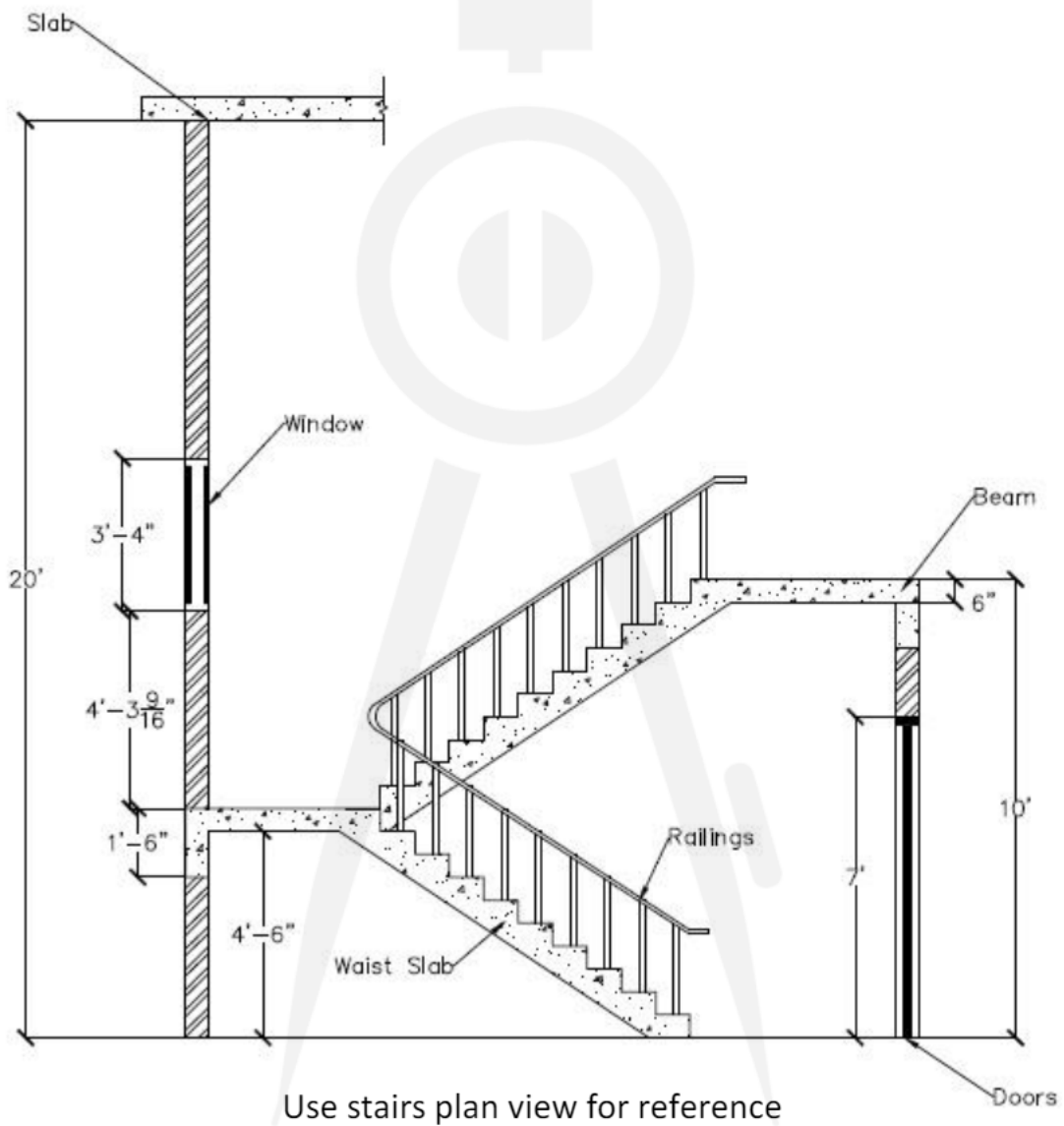
Use Floor plan for reference

**Project 3 – East Elevation**

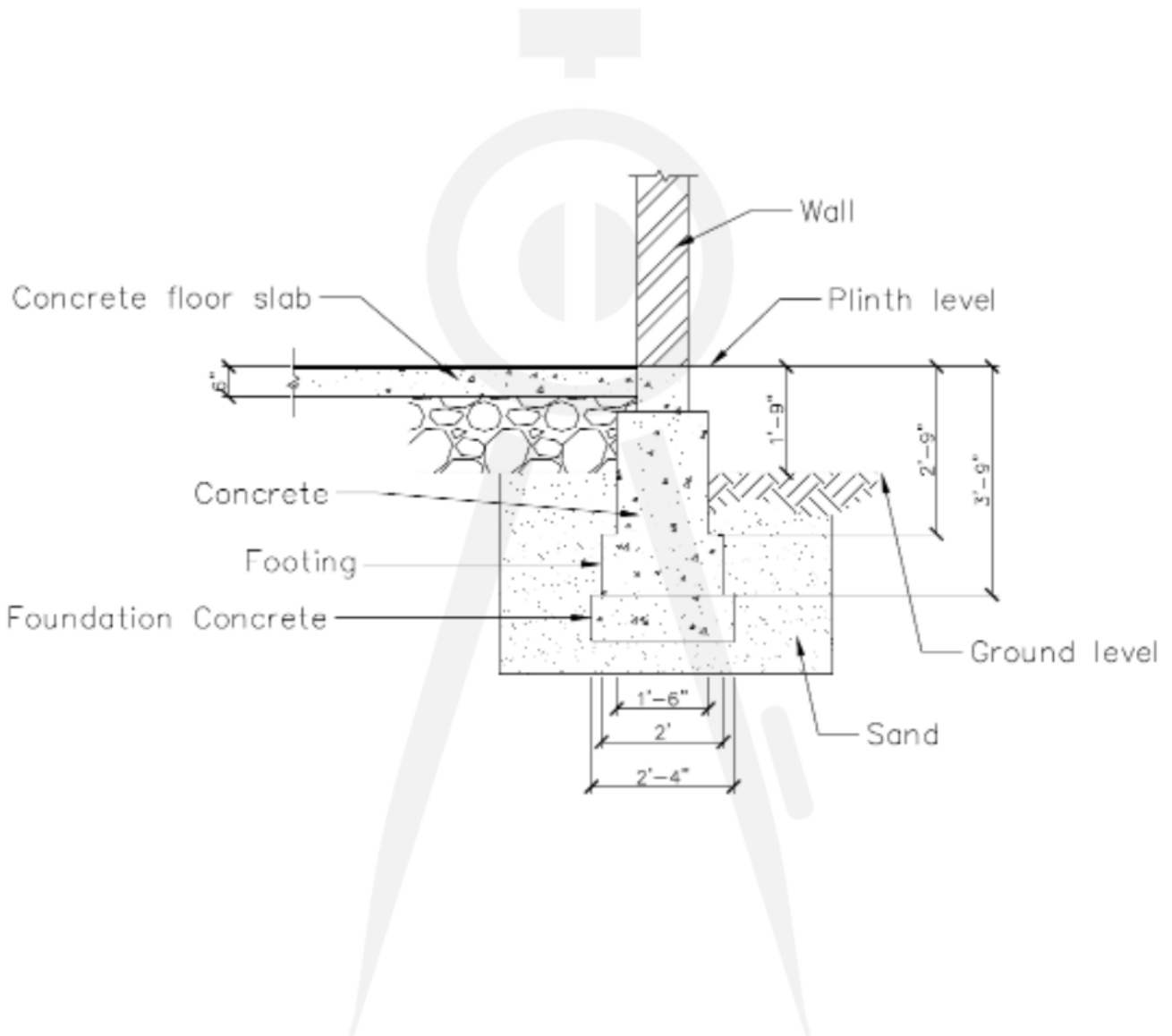


**Project 4 – East West Section**

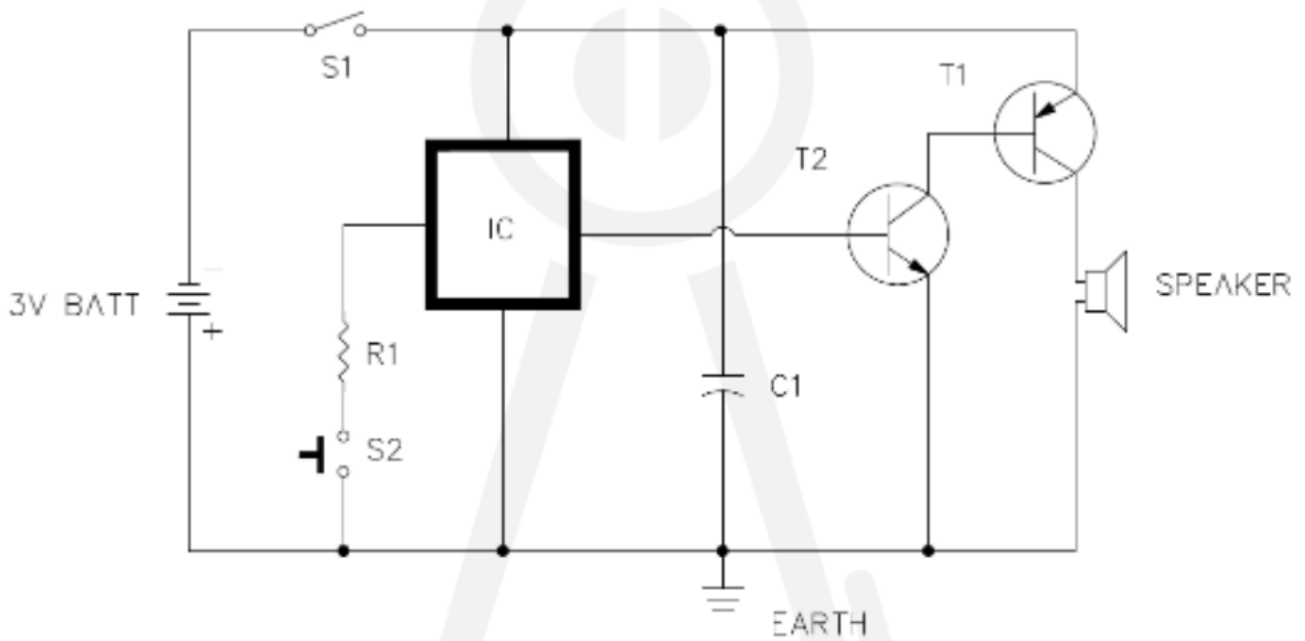




**Project 6 – Stairs Sectional Elevation**

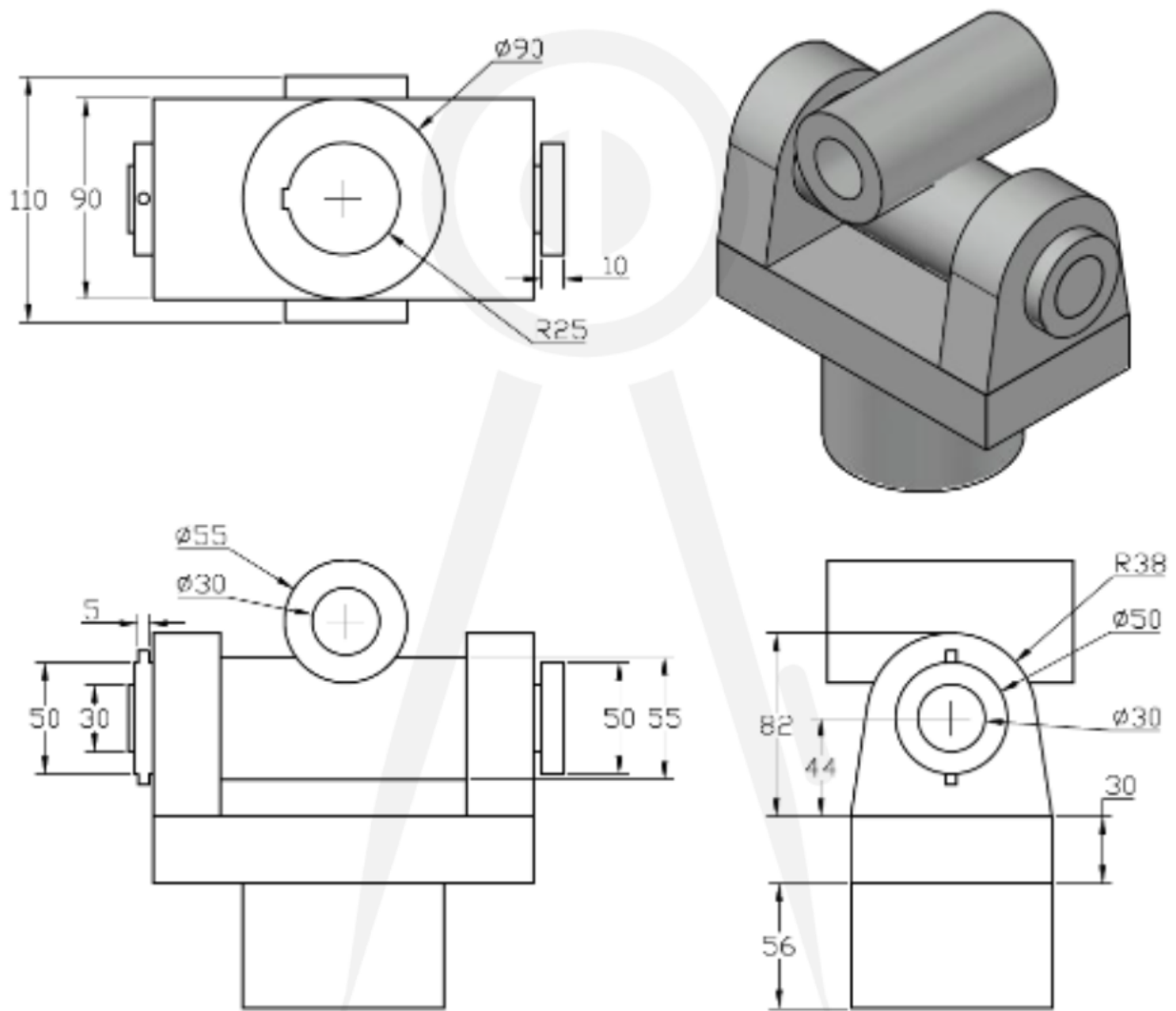


**Project 7 – Foundation Plan**



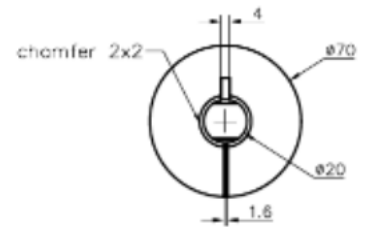
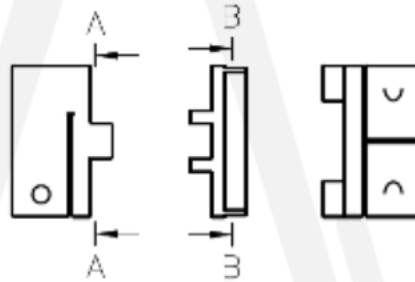
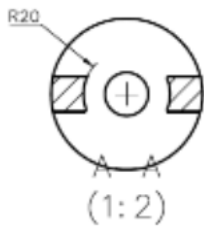
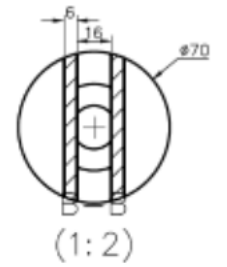
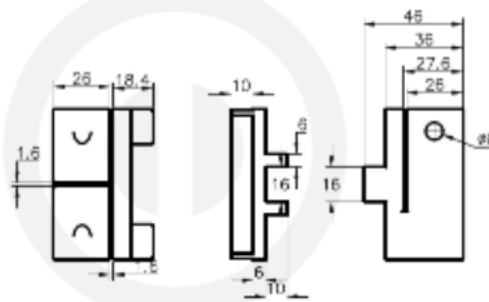
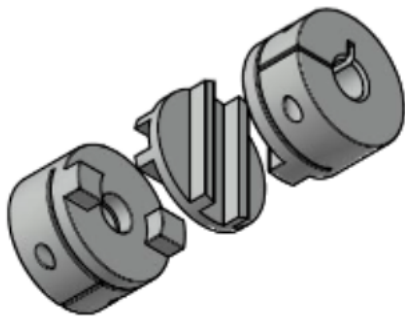
**Project 8 – Door Bell Circuit Diagram**





All dimensions are in mm

### Project 9 – Universal Coupling



All units are in mm  
All fillets are 0.6 radii

**Project 10 – Oldham’s Coupling**



## Jaiprakash Pandey

I am a mechanical engineer and I have worked with Design, Manufacturing and Training industries and currently, I work as CAD corporate trainer. I train corporate clients in AutoCAD, Fusion 360, and Geometric dimensioning and tolerancing and help them develop the skill set of their workforce.

I am an Autodesk AutoCAD Certified Professional and an Autodesk expert elite member too. I am a regular contributor to AUGI World magazine and apart from SourceCAD I also develop AutoCAD video courses for Pluralsight and other E-Learning businesses.

SourceCAD is a platform developed by me and it hosts video courses and tutorials on different CAD software and engineering drawing related topics. The courses and tutorials are free as well as paid.

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