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Preface

The primary goal of this book is to provide CAD practice exercises for beginners. This book contains 251 2D exercises. Each exercise can be designed on any CAD software such as AutoCAD, SolidWorks, Catia, PTC Creo Parametric, Siemens NX, Autodesk Inventor, Solid Edge, DraftSight and other CAD programs. These exercises are designed to help you test out your basic CAD skills. Each exercise can be assigned separately. No exercise is a prerequisite for another. All dimensions are in mm.

Disclaimer

The book contains 251 2D exercises to enable you practice what you learn. The exercises range from easy to expert level. These exercises are not tutorials. It is a practice book. You can use these exercises to improve your skills in any CAD software.

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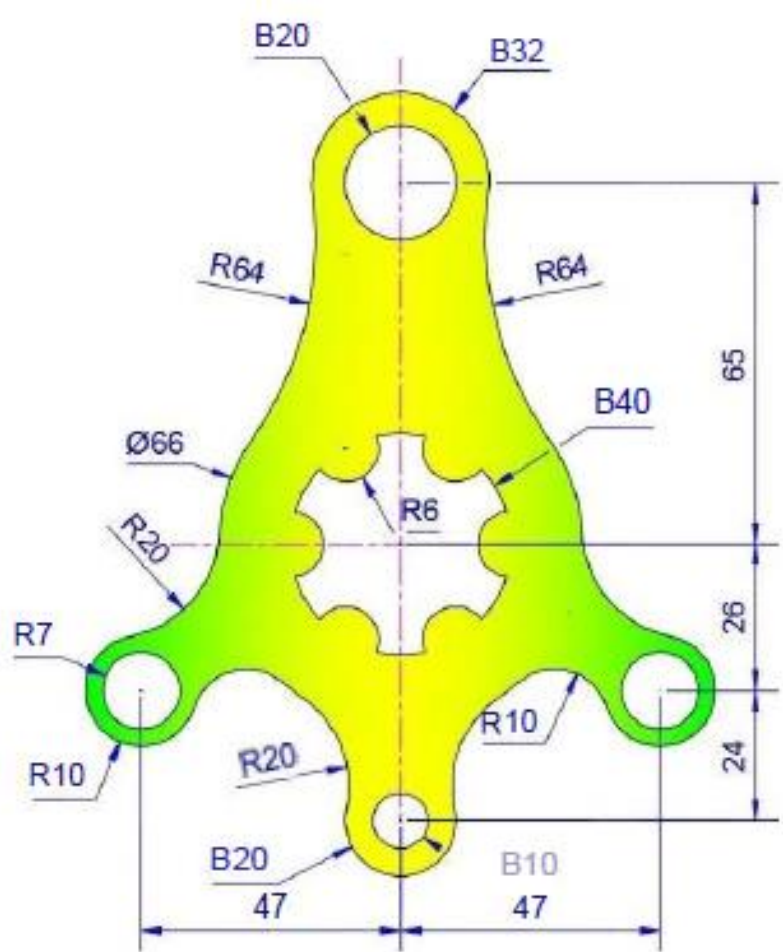
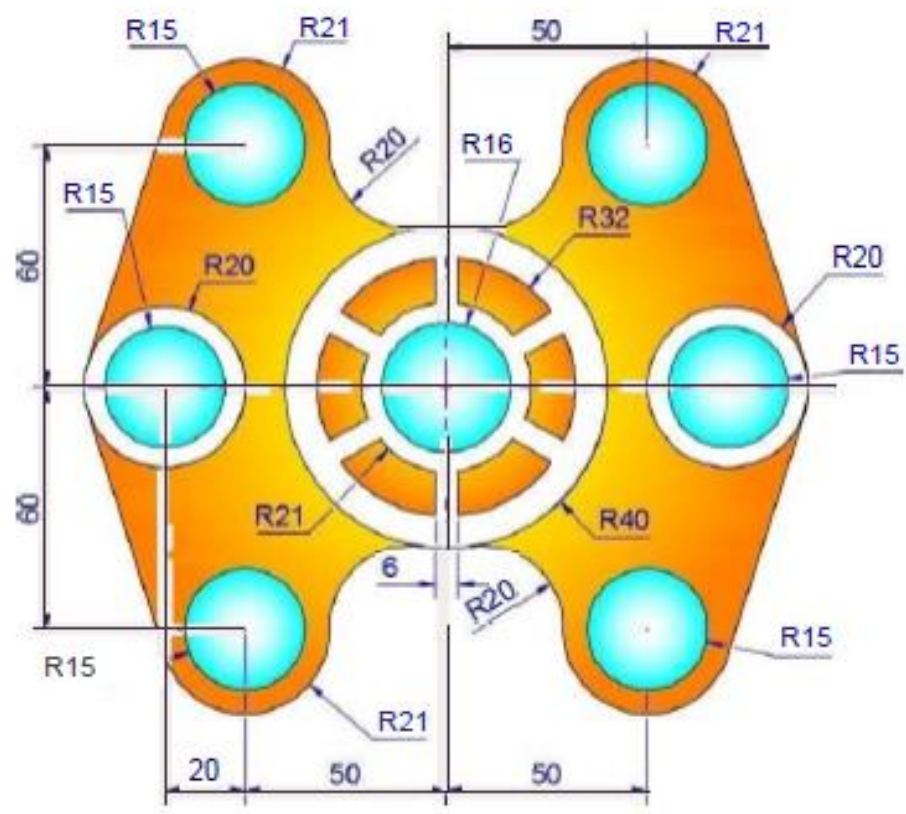
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What is a CAD 2D Drawing?

CAD 2D drawing refers to a computer-aided design (CAD) file that contains a two-dimensional representation of an object or part. 2D drawings are typically used in engineering and manufacturing industries to communicate design details to others involved in the production process. CAD 2D drawing software allows designers and engineers to create accurate and precise drawings of parts and assemblies. These drawings can include measurements, dimensions, annotations, and other details that are important for the manufacturing process.

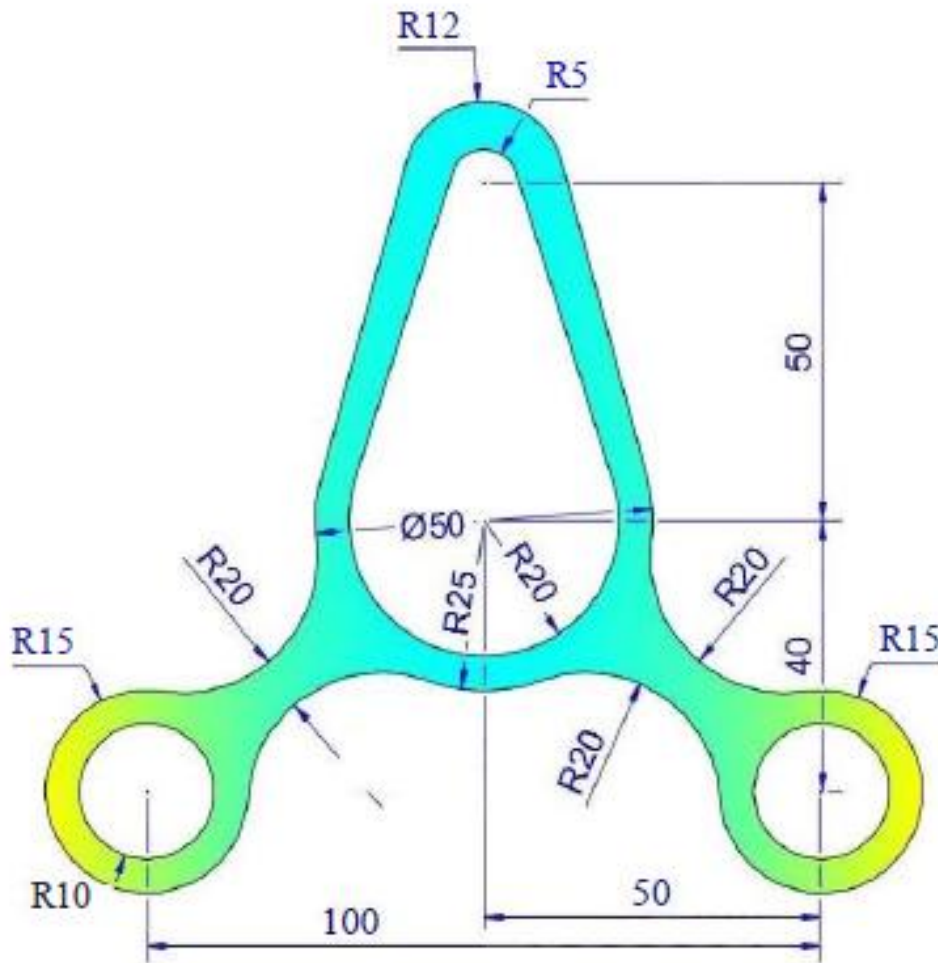
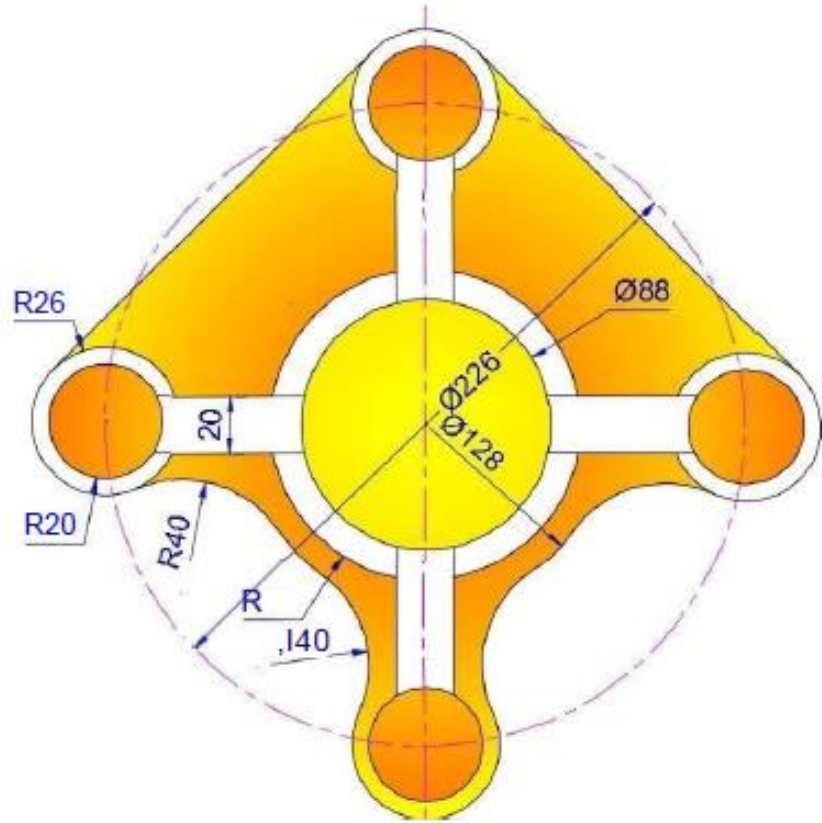
2D drawings are often used to create technical drawings, schematics, and blueprints. They can be used to communicate design intent, specify tolerances, and convey other important information to those involved in the production process. CAD 2D drawing files can be saved in various formats, including DWG, DXF, and PDF. These files can be shared electronically with others involved in the production process, making it easier to collaborate and make changes as needed. Now, engineers still create 2D detailed drawings for CNC machining parts.

For Beginner, Intermediate and Advance cad users

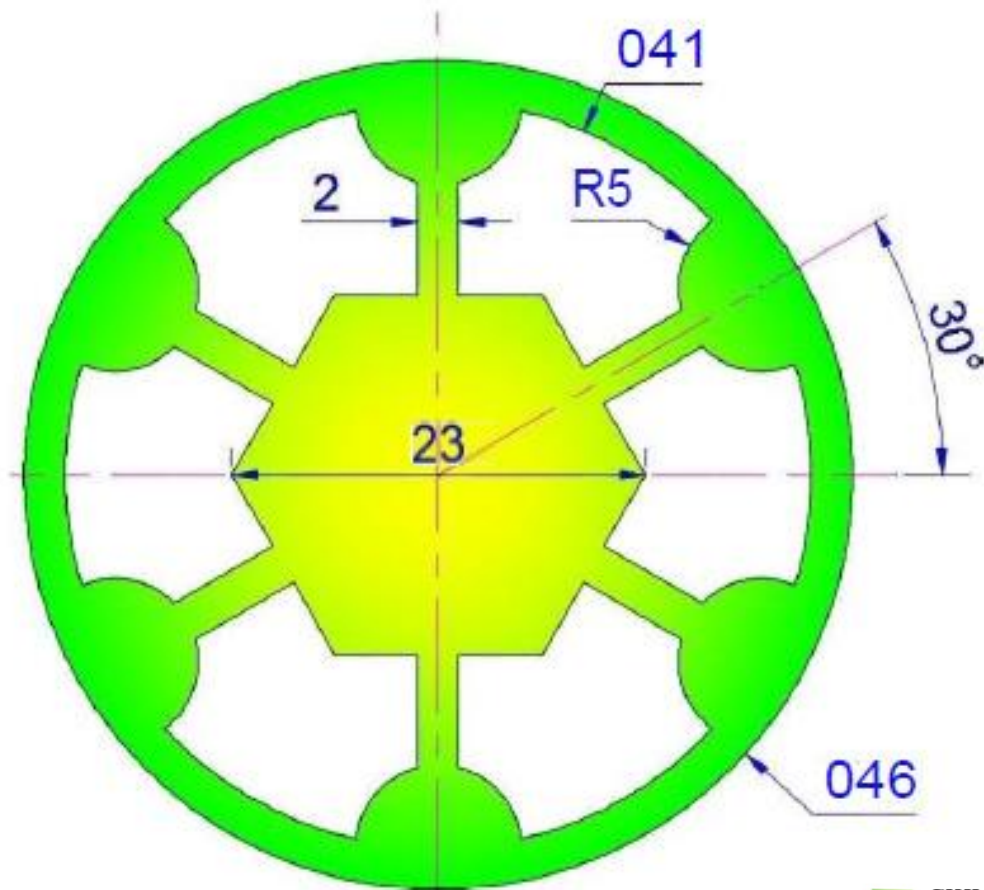
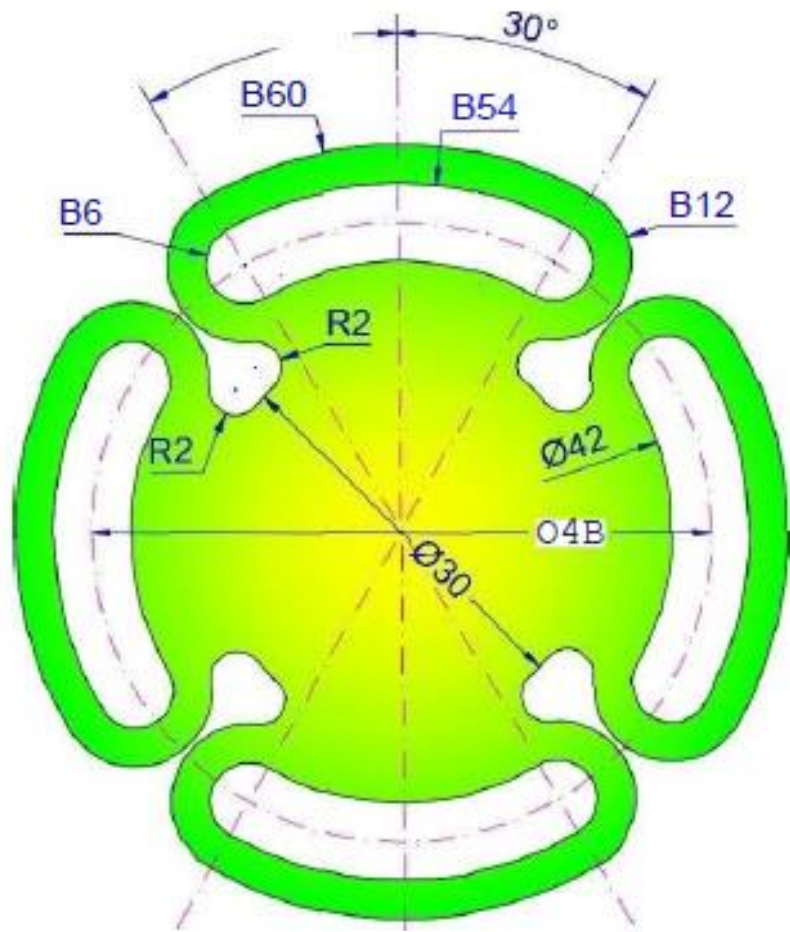


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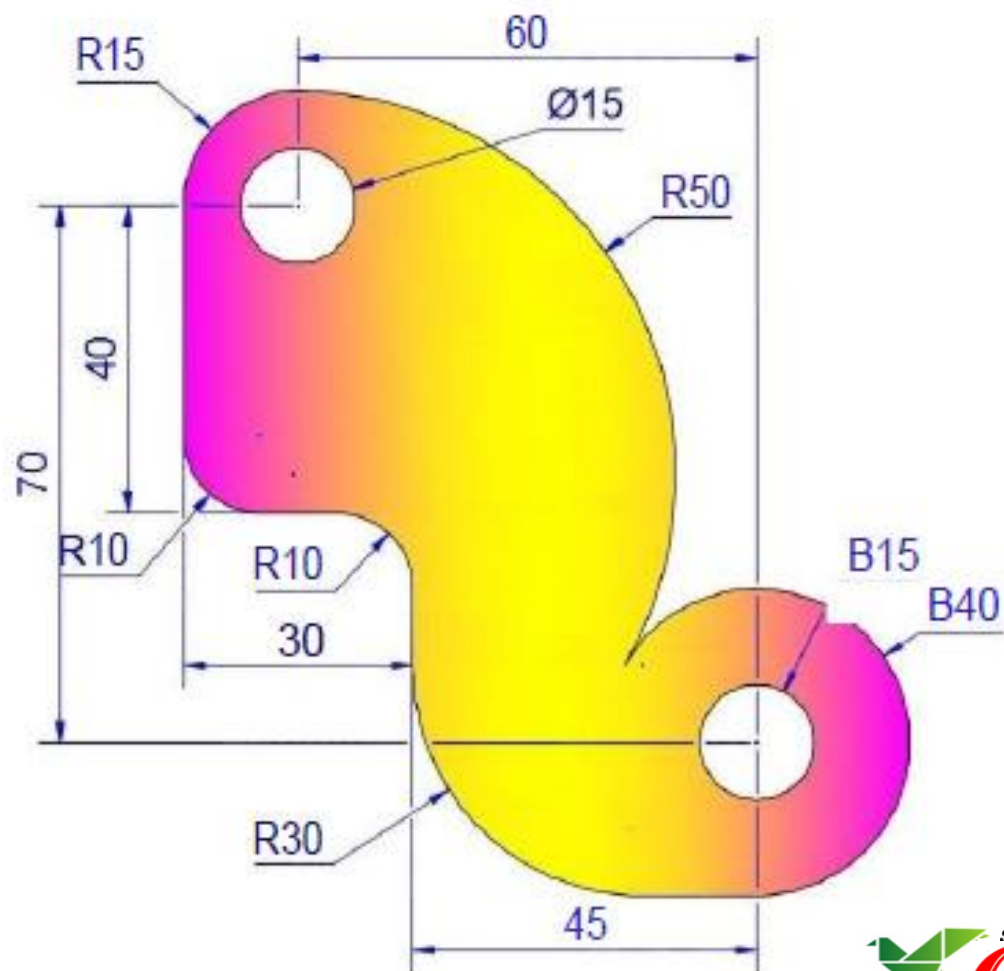
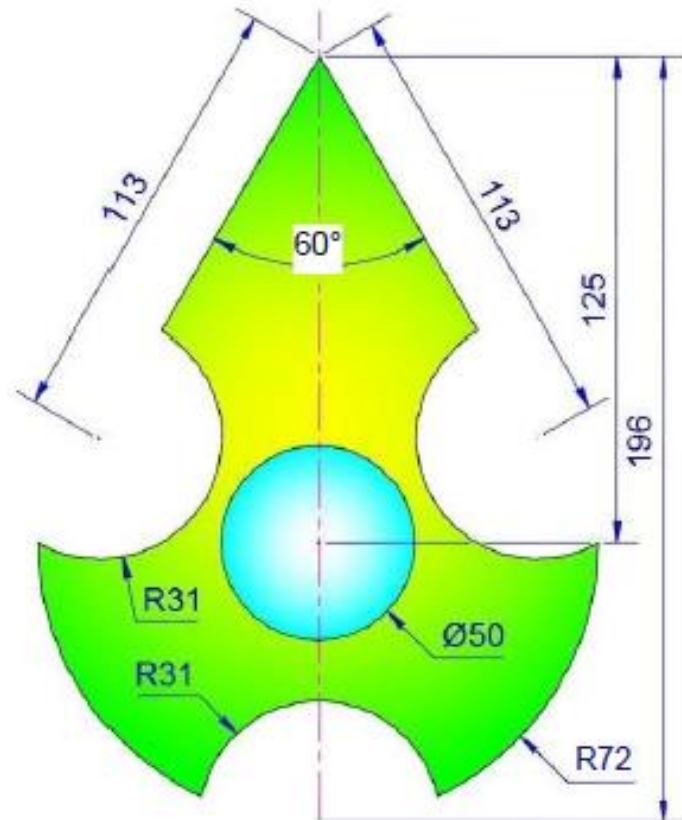
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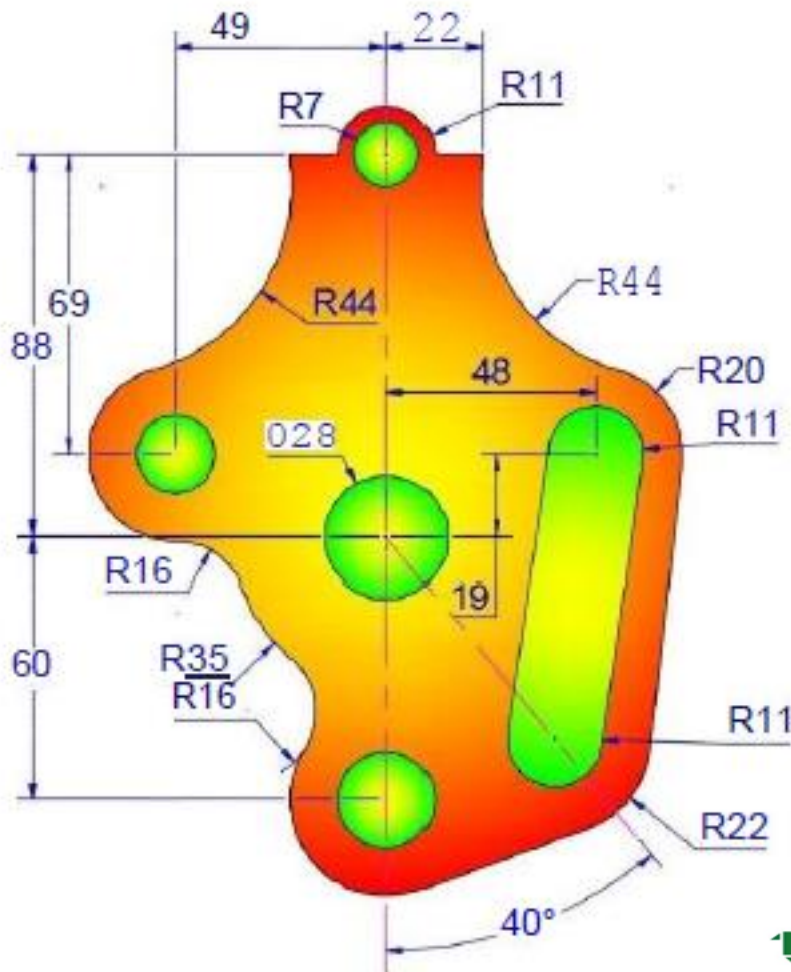
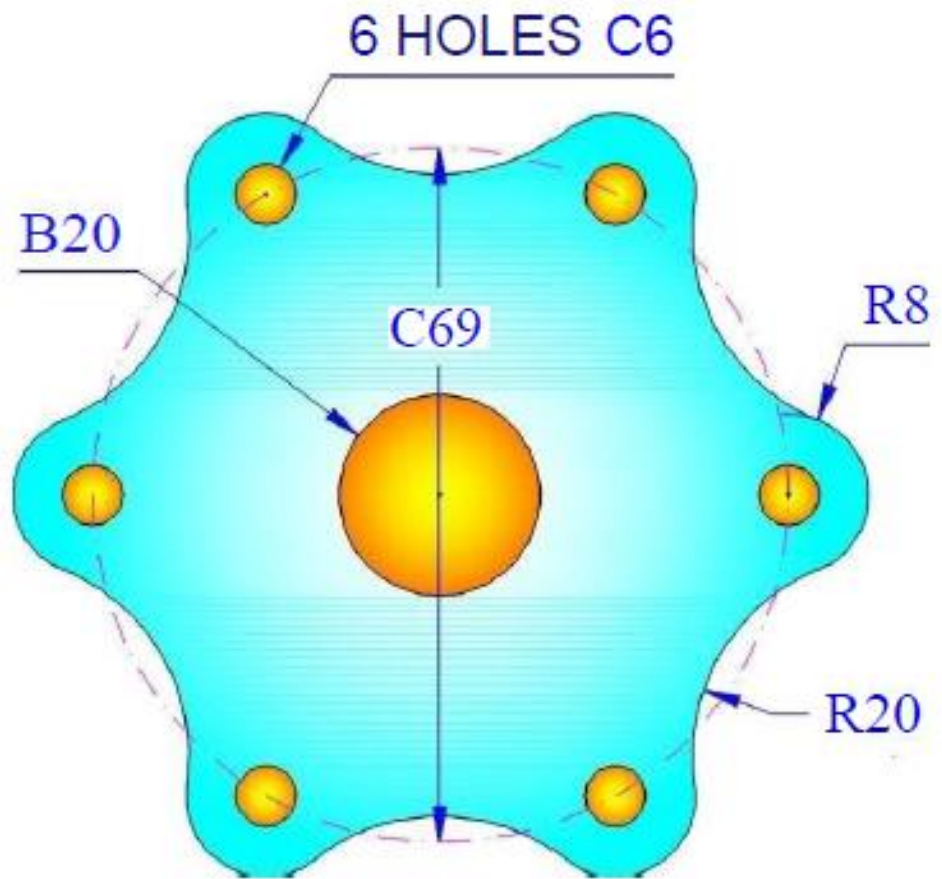
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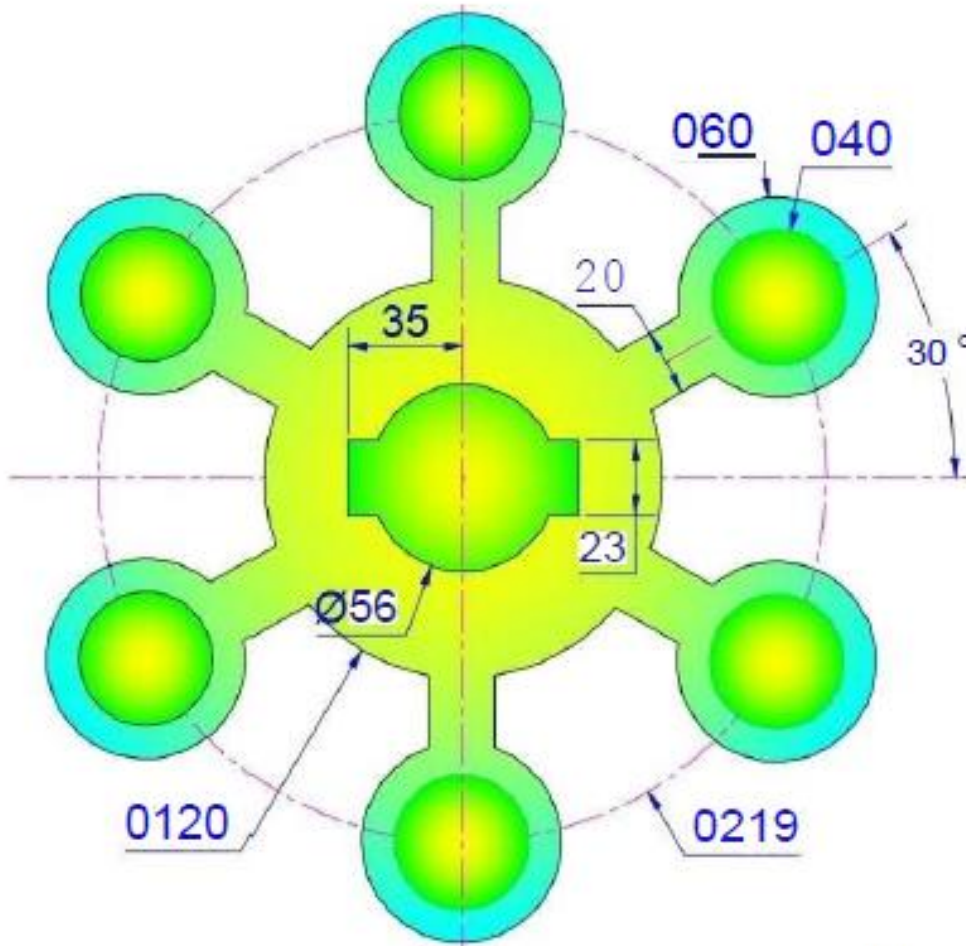
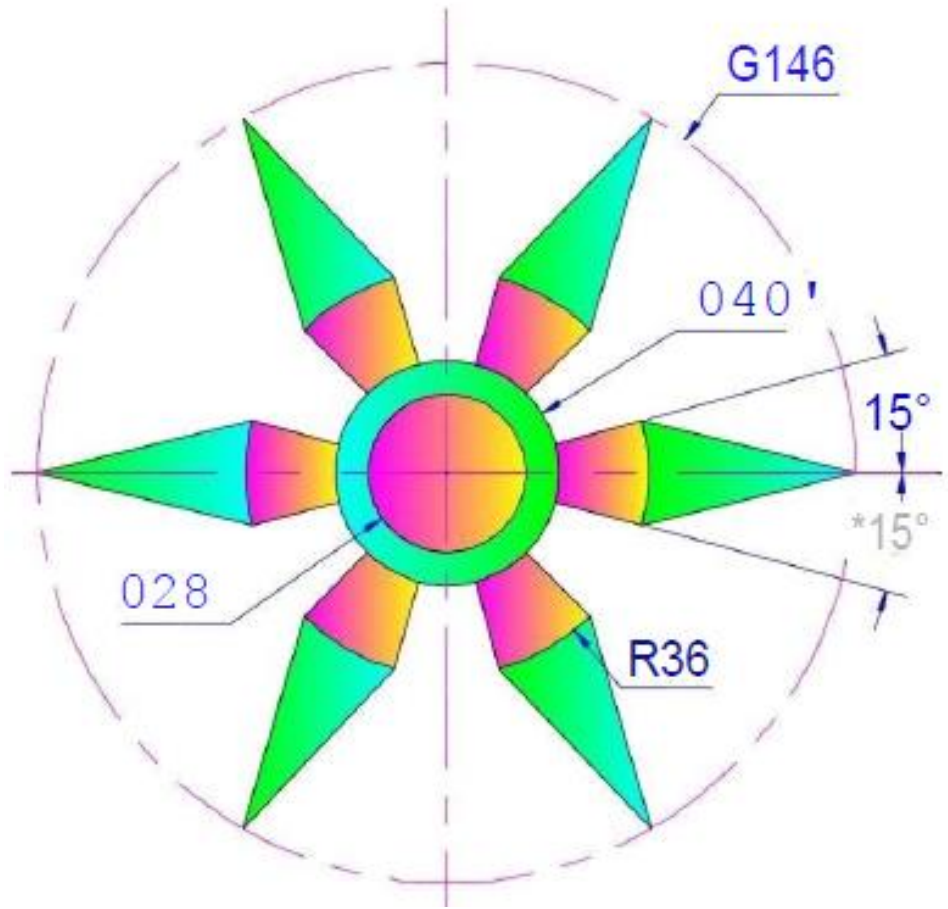
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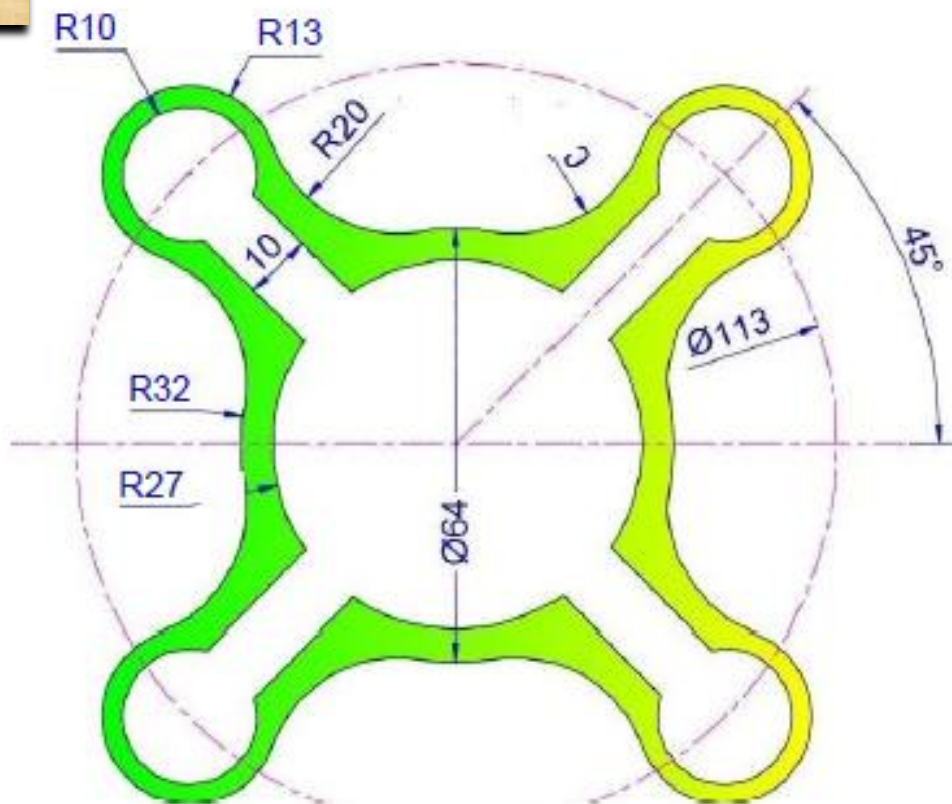
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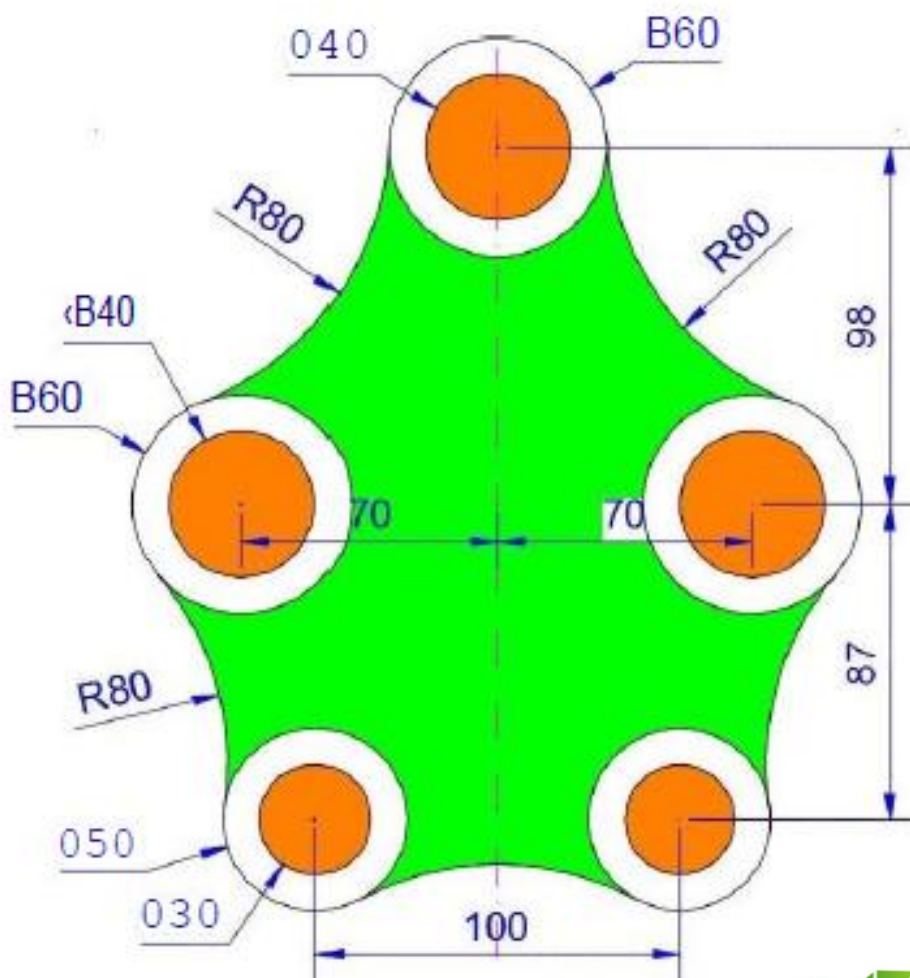
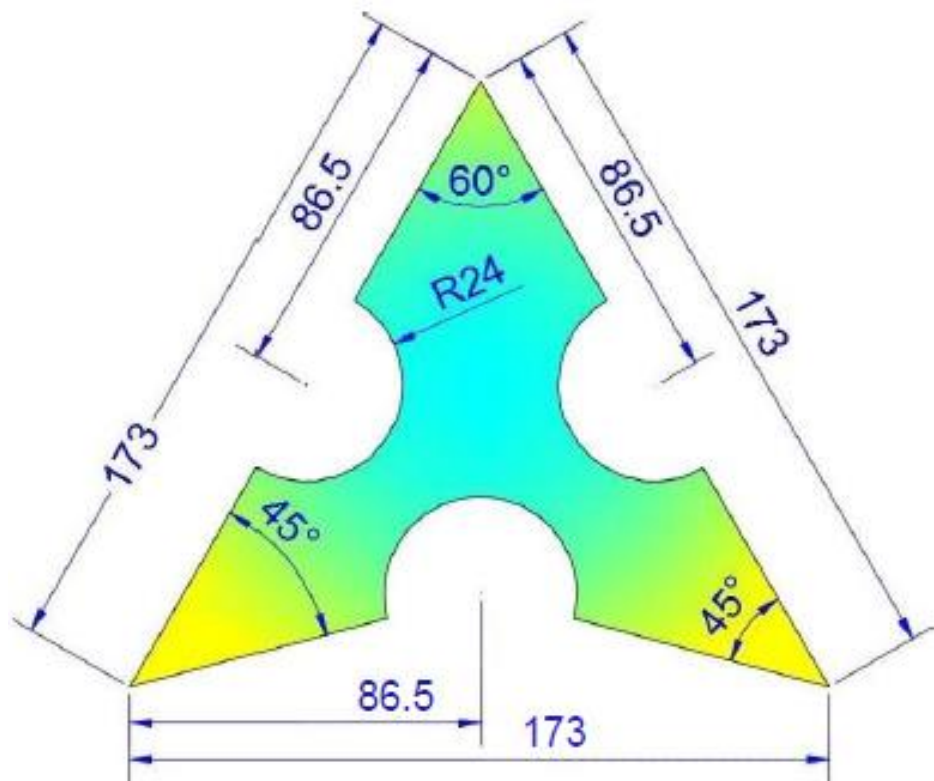
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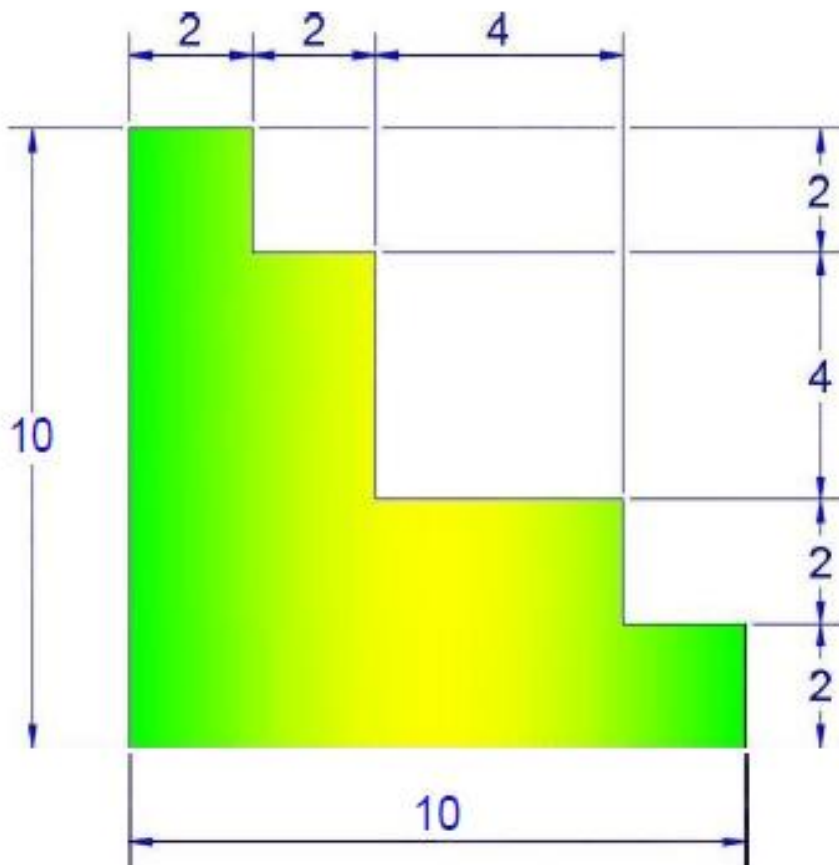
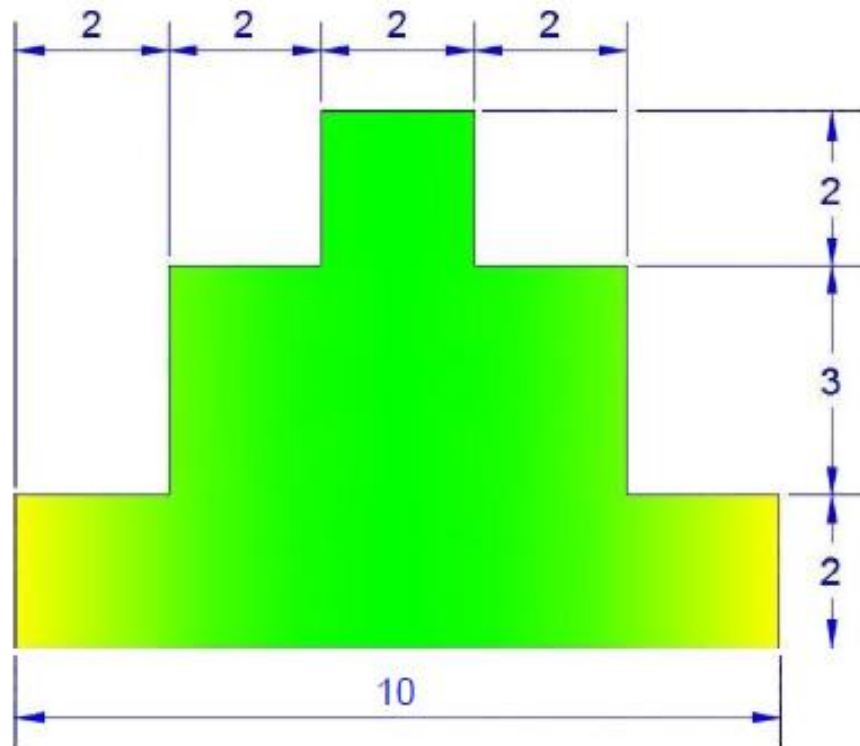
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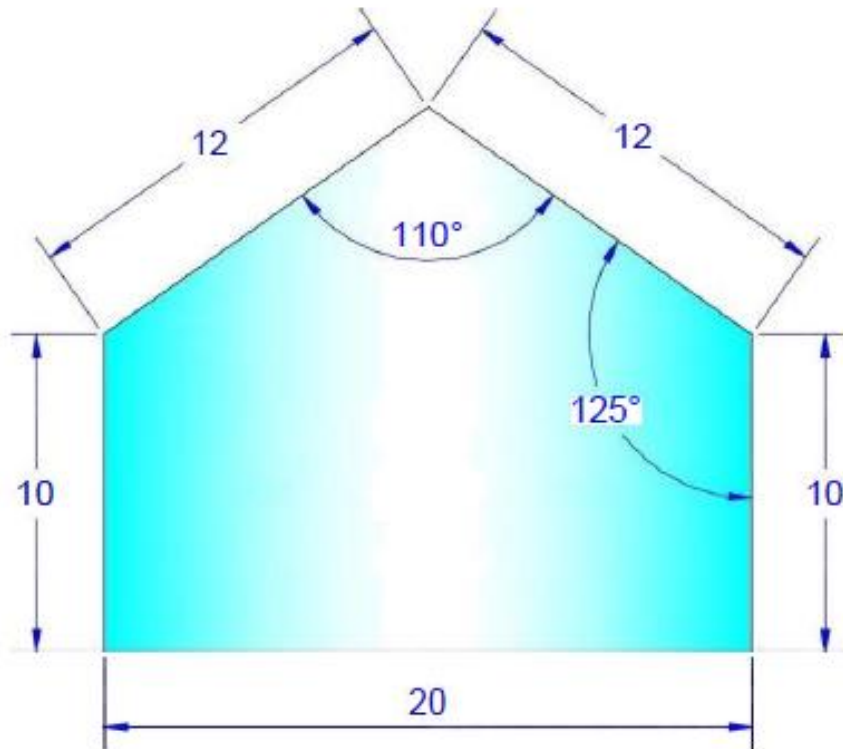
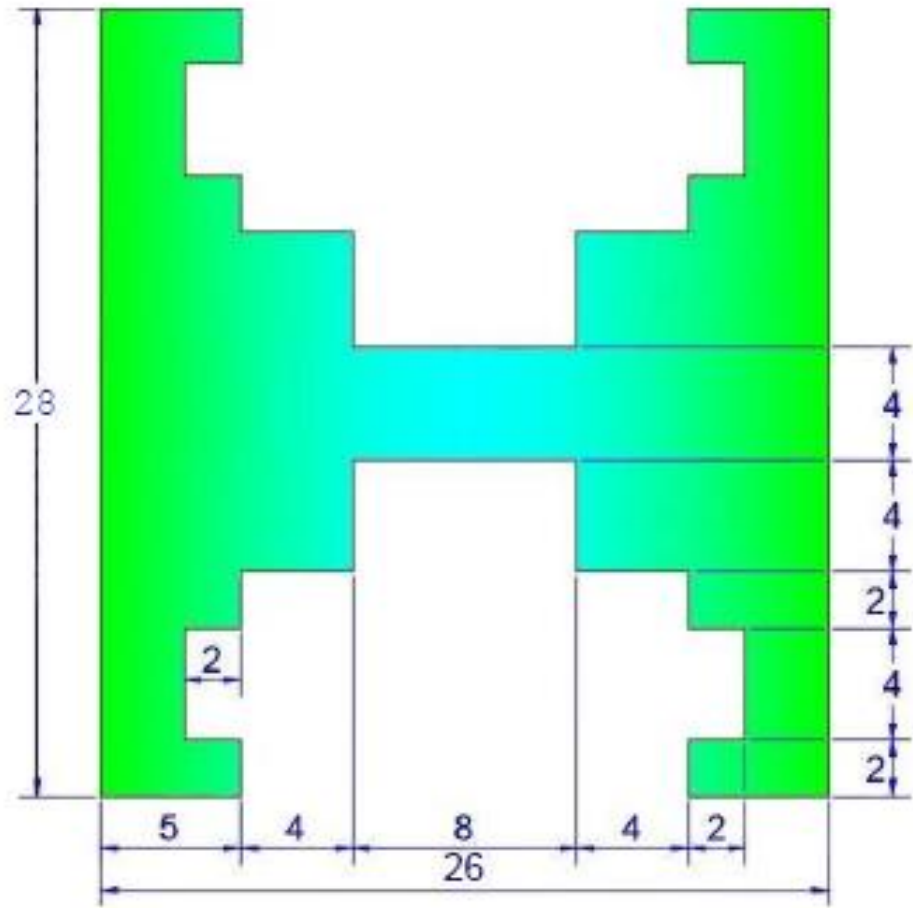
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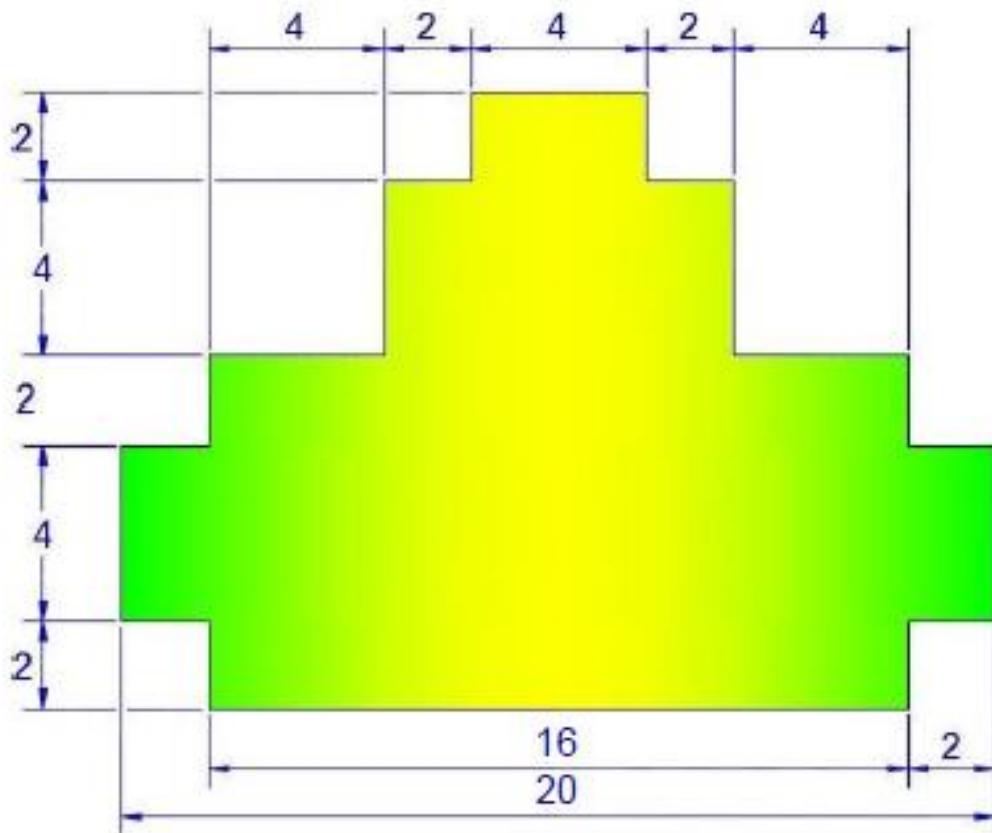
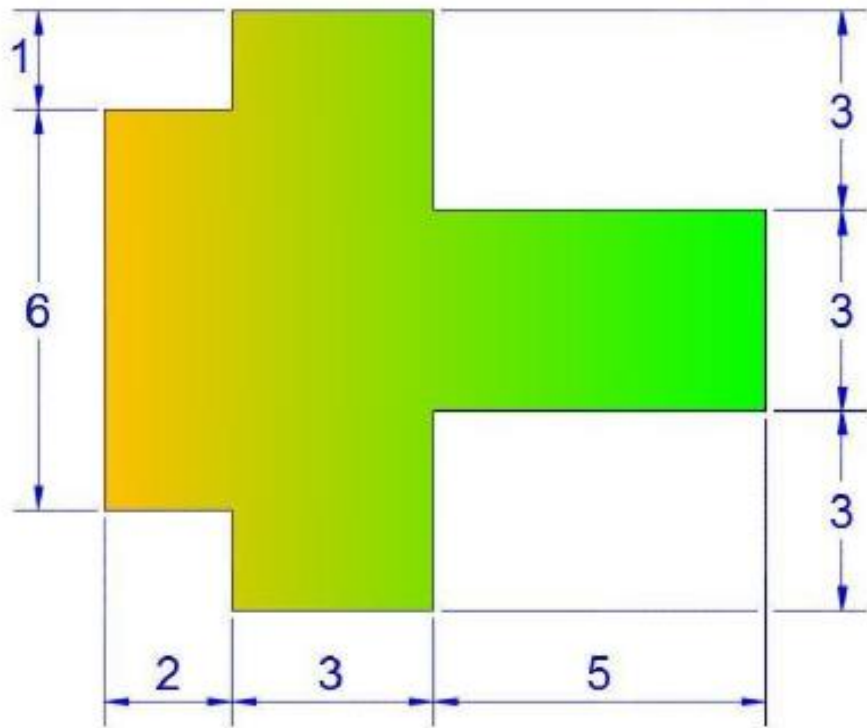
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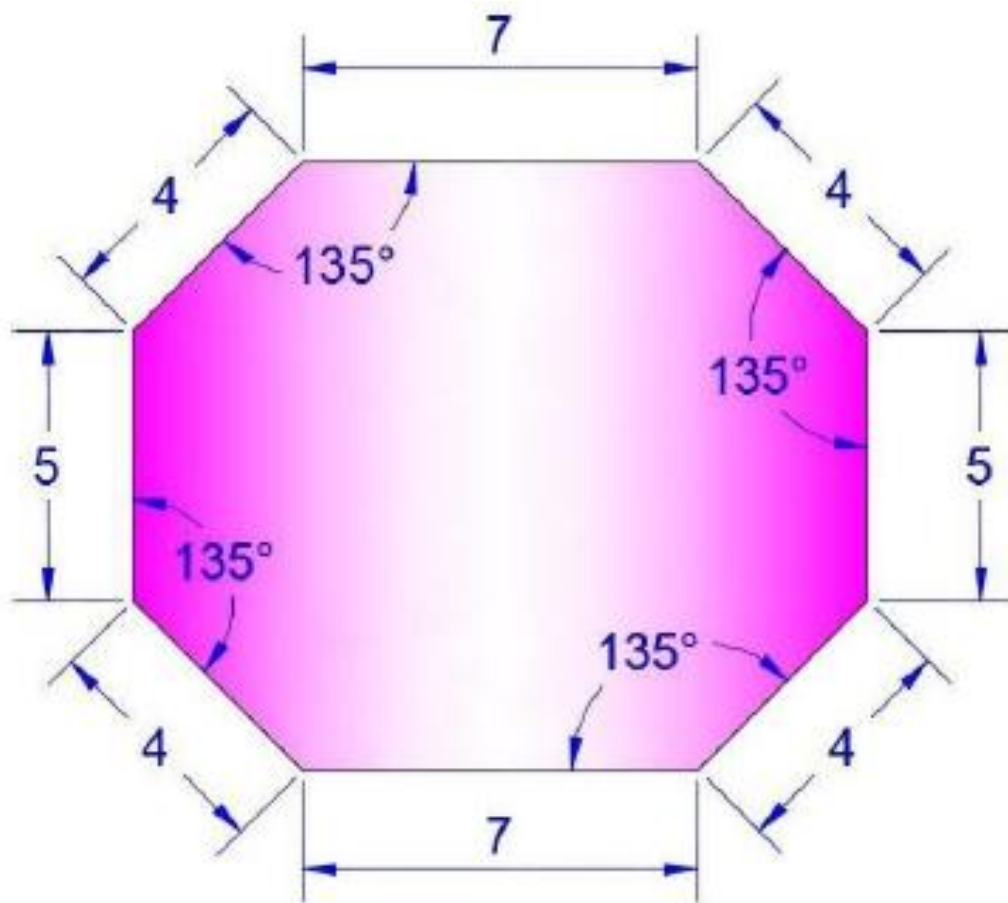
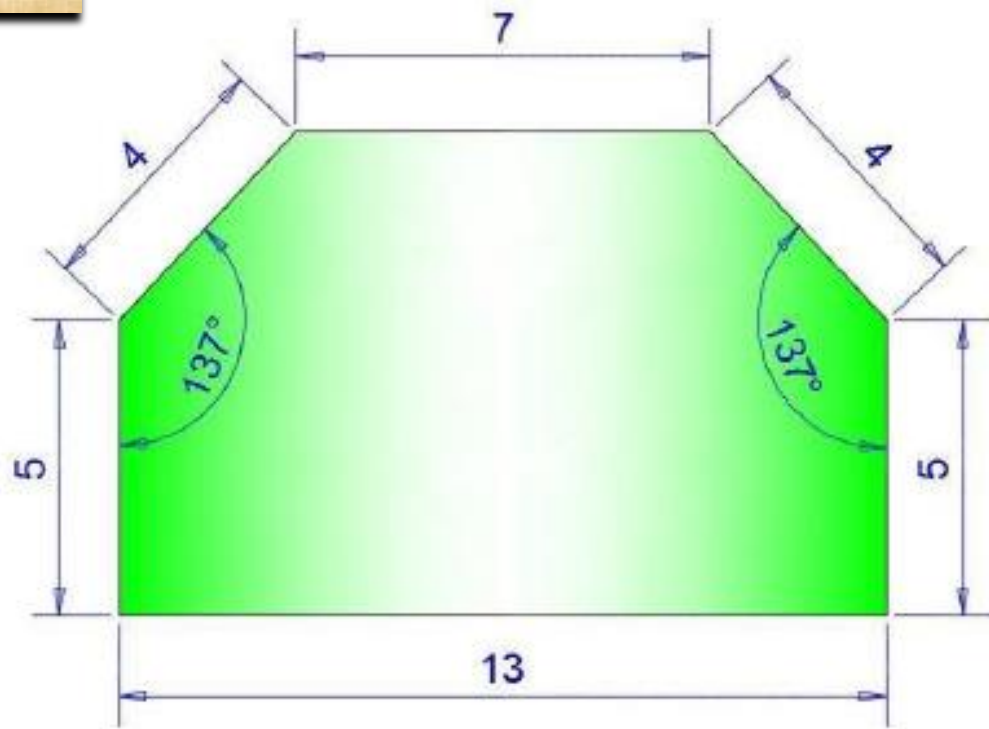
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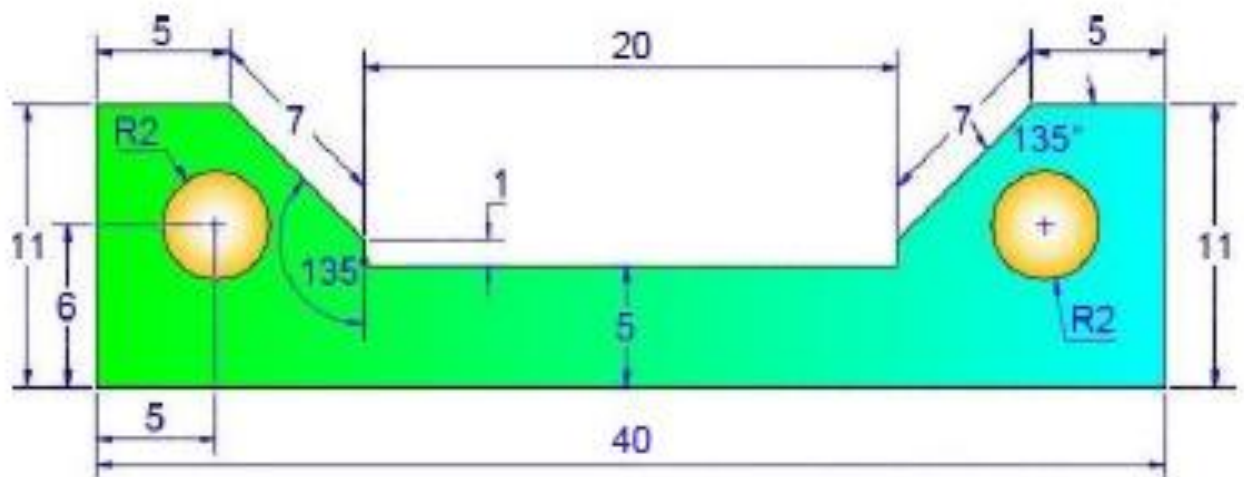
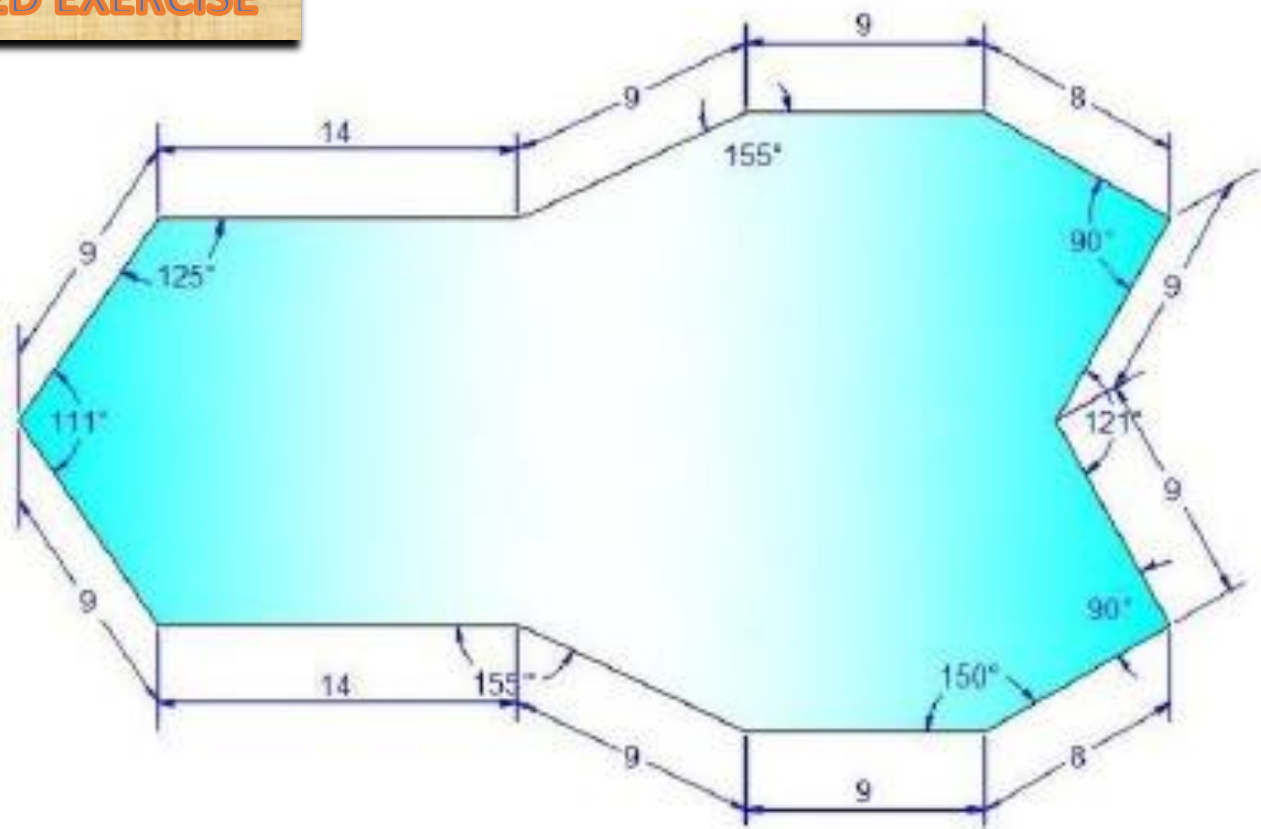
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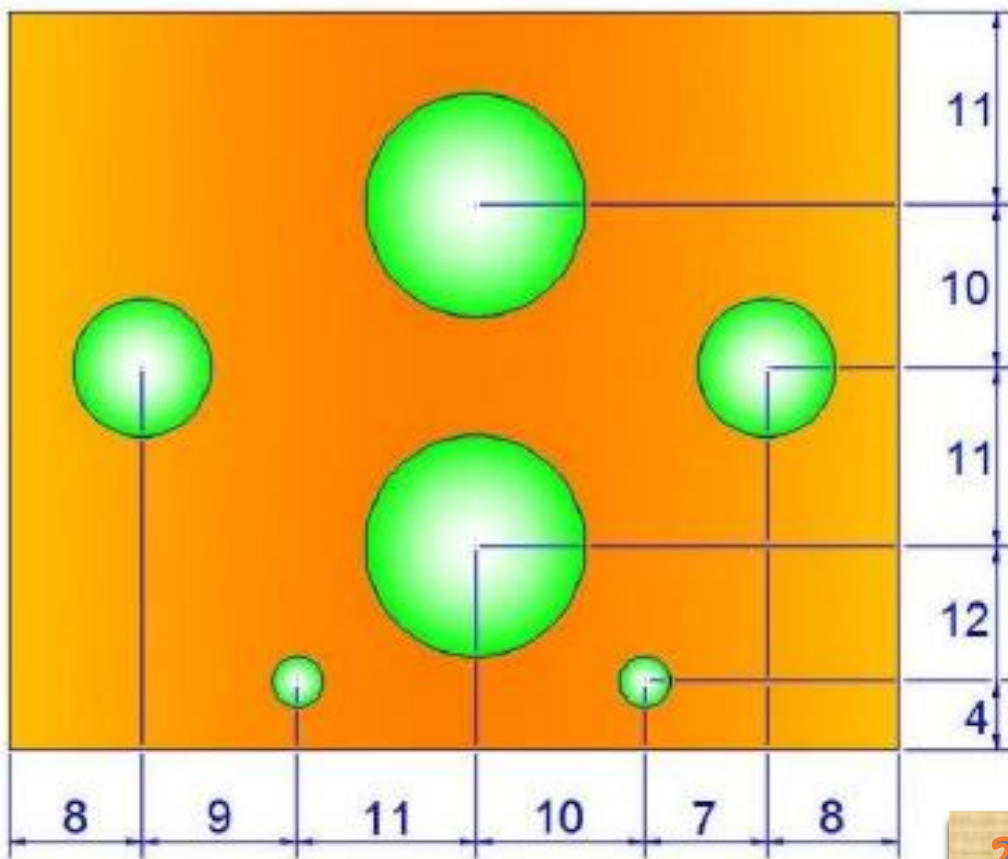
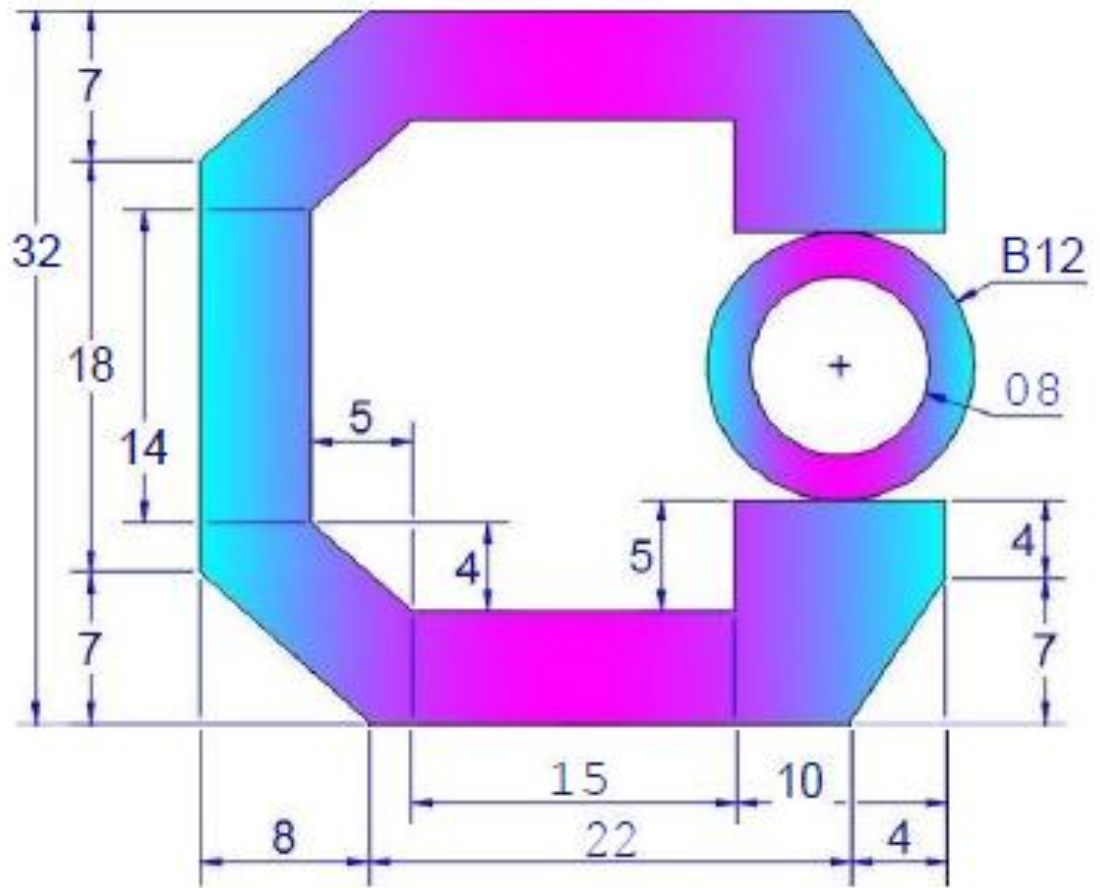


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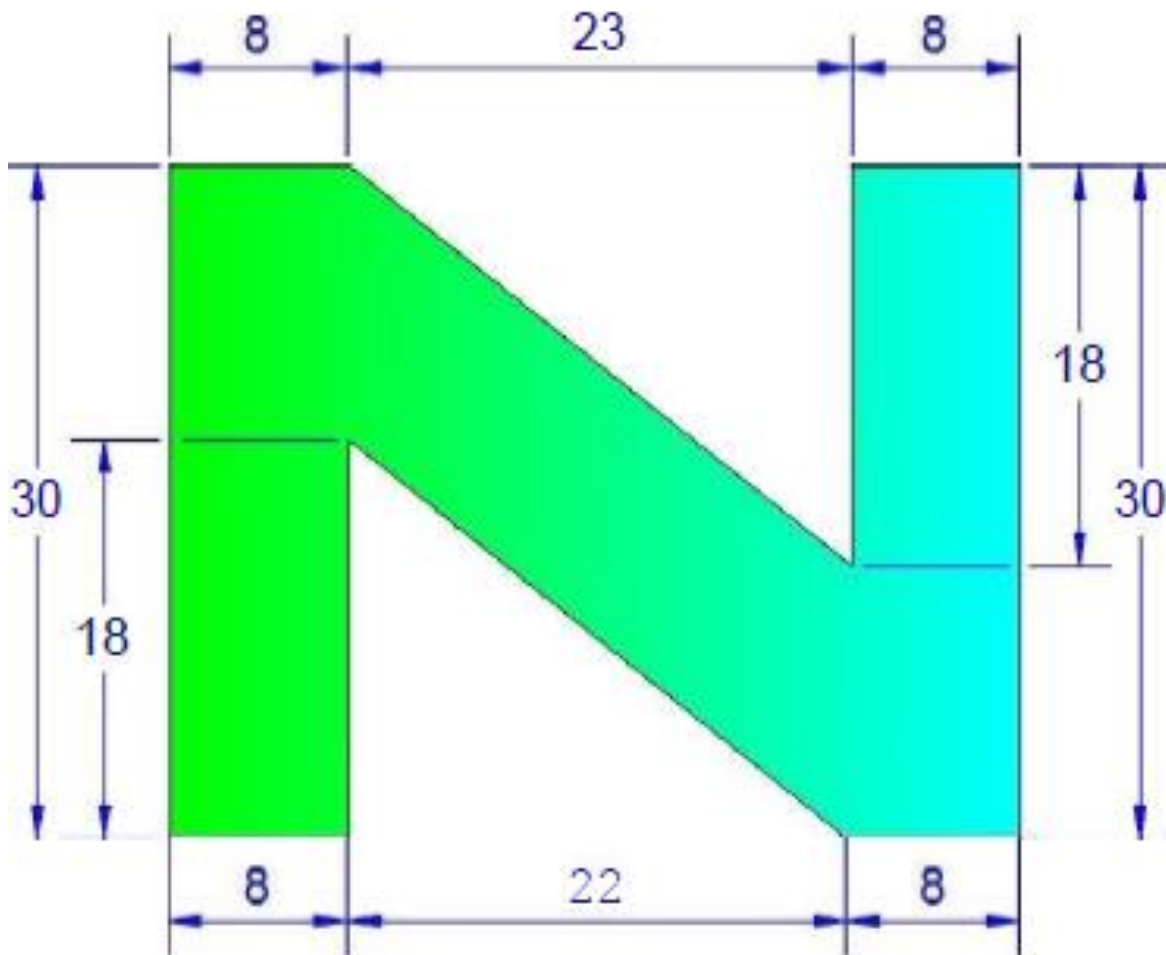
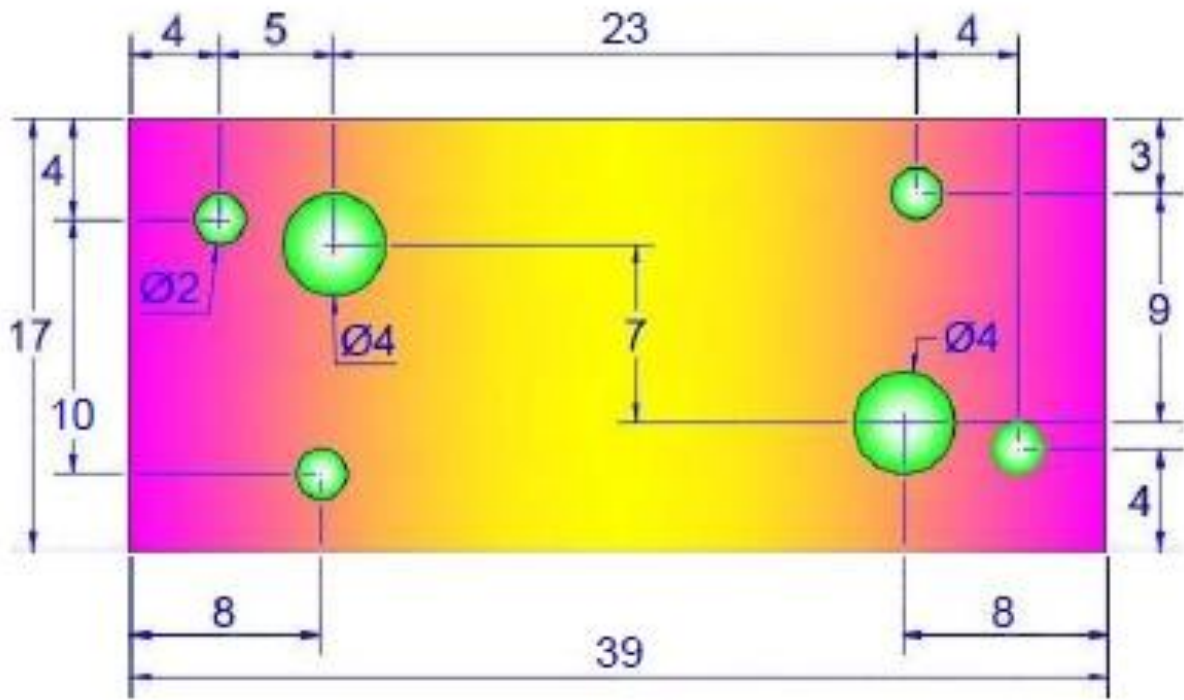


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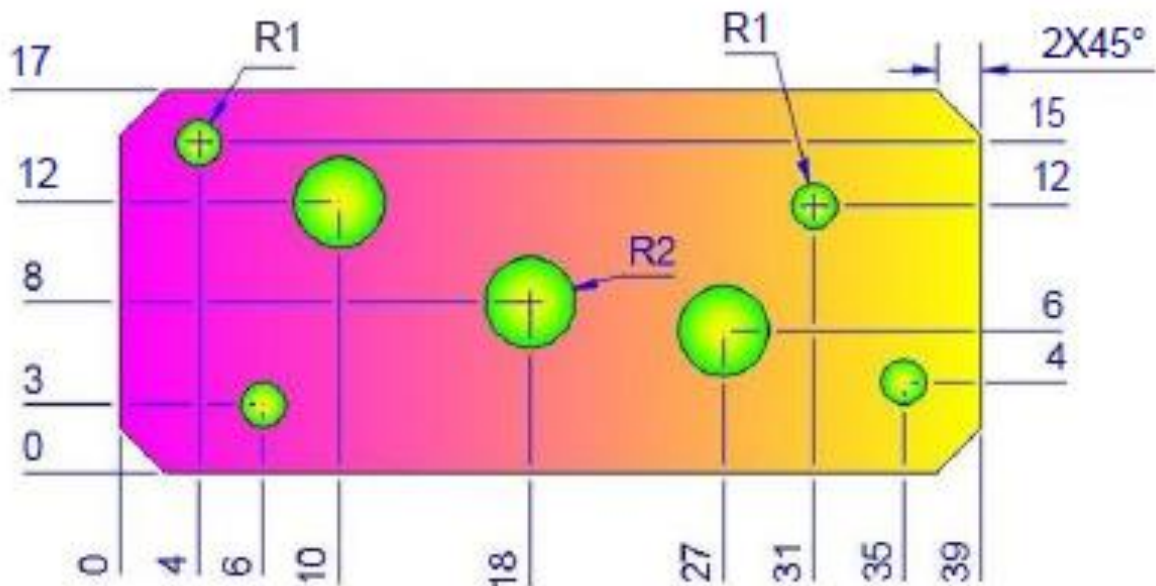
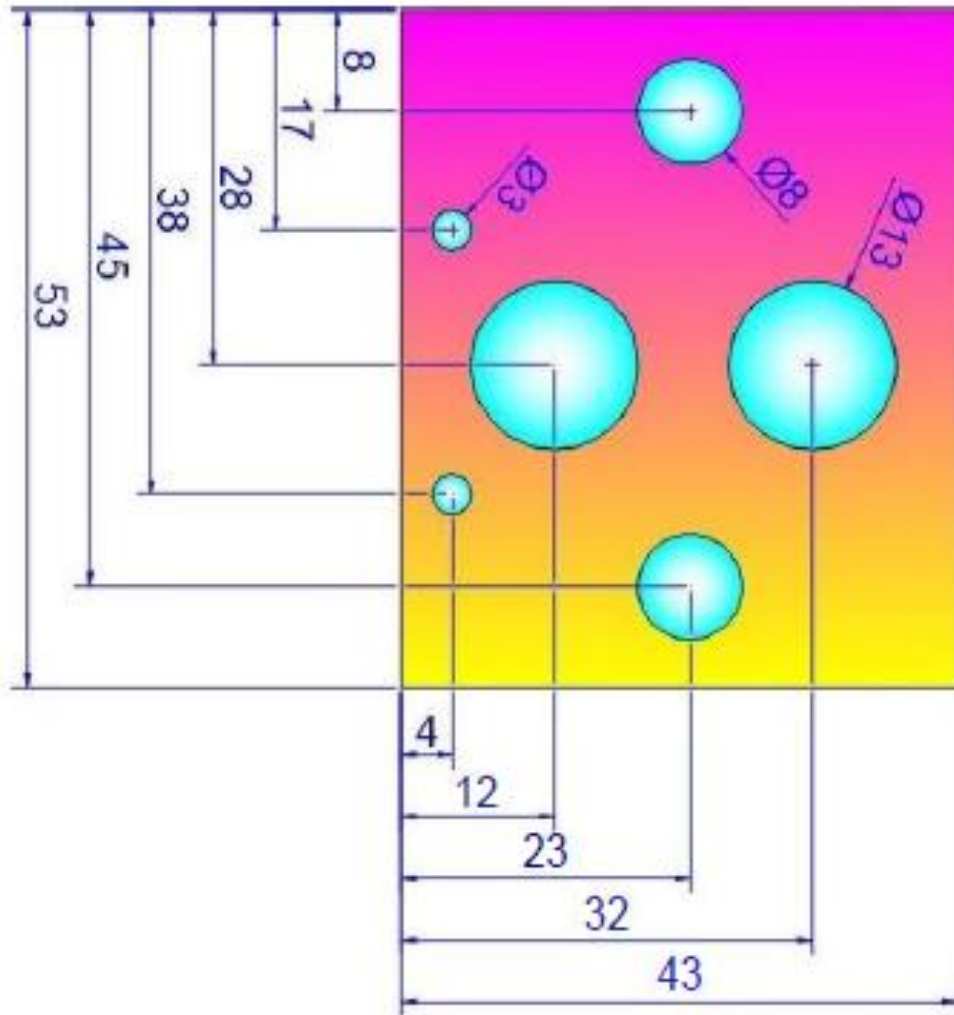




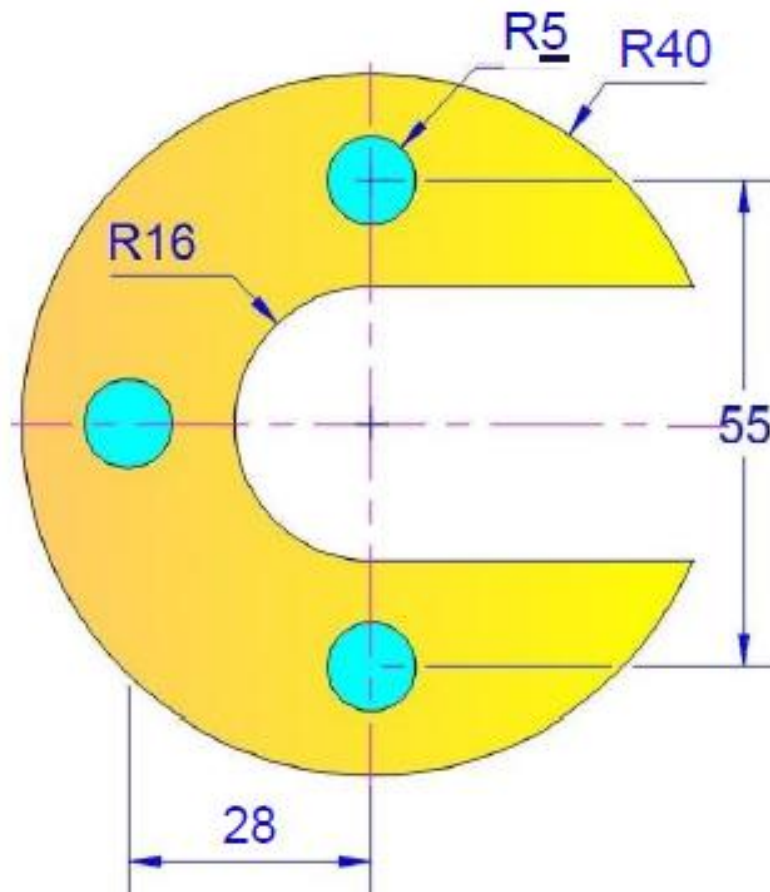
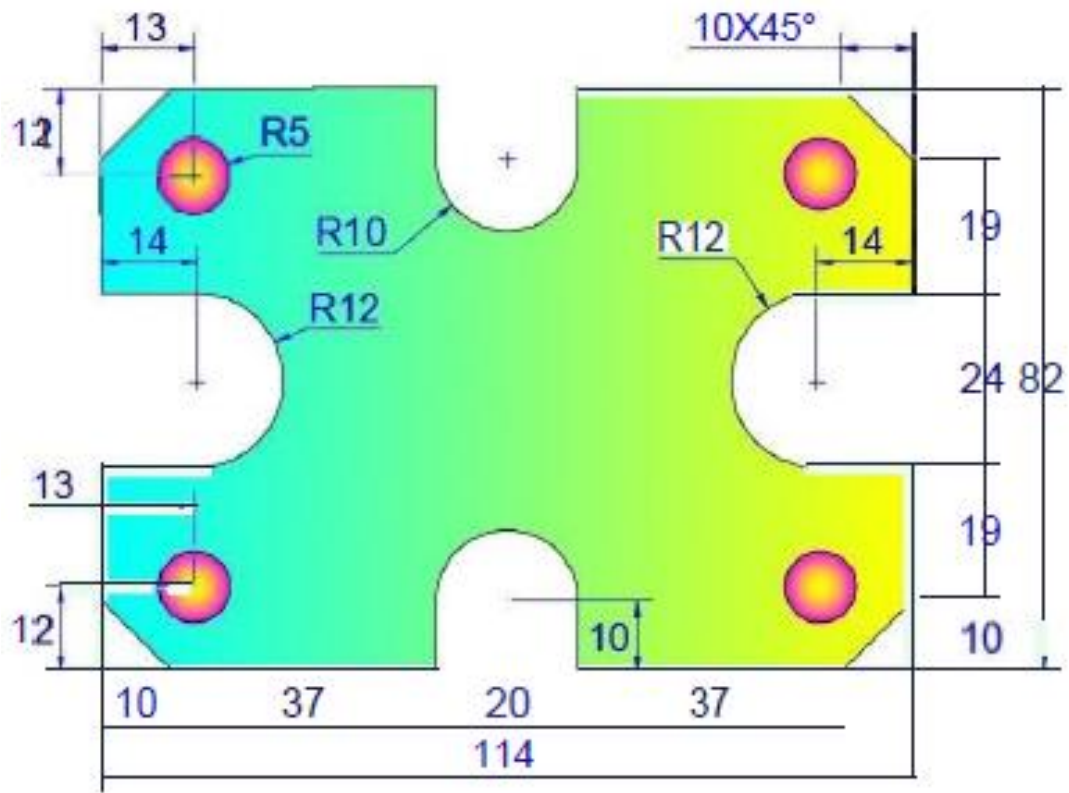
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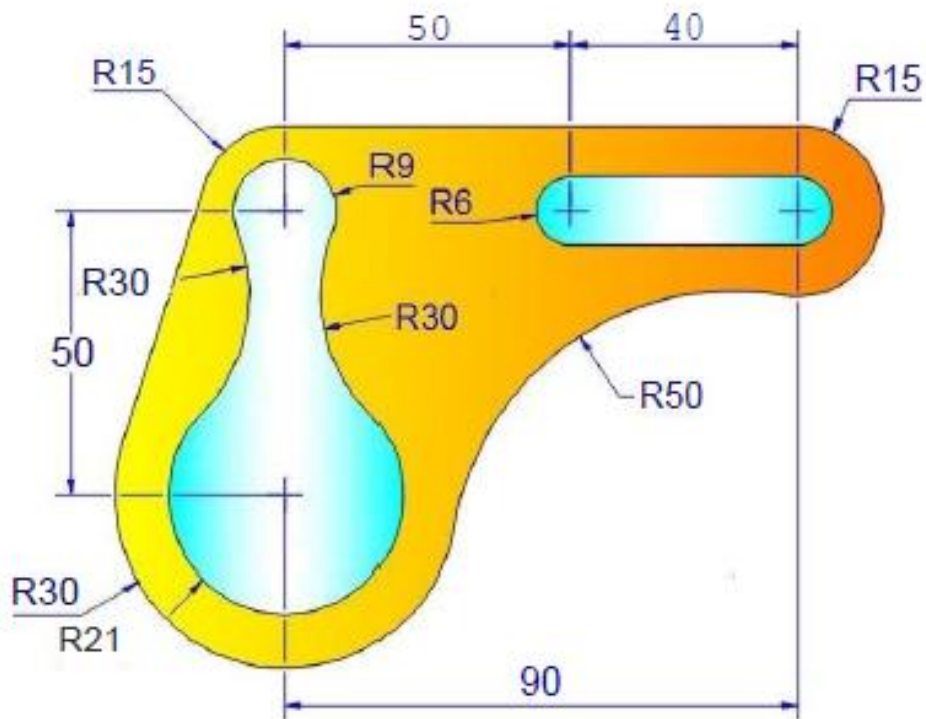
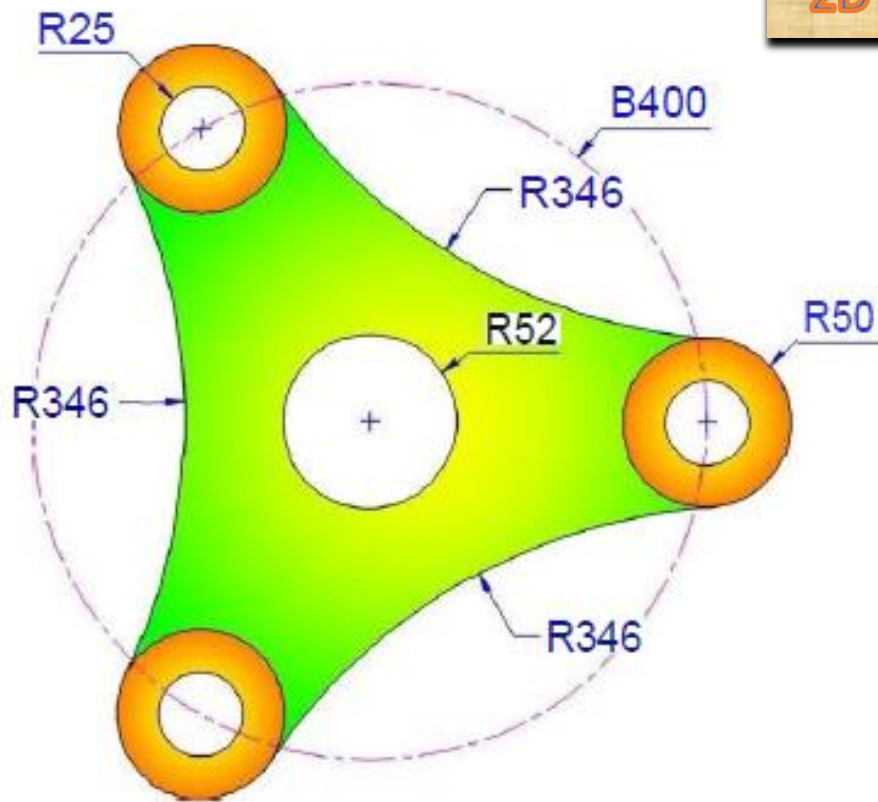


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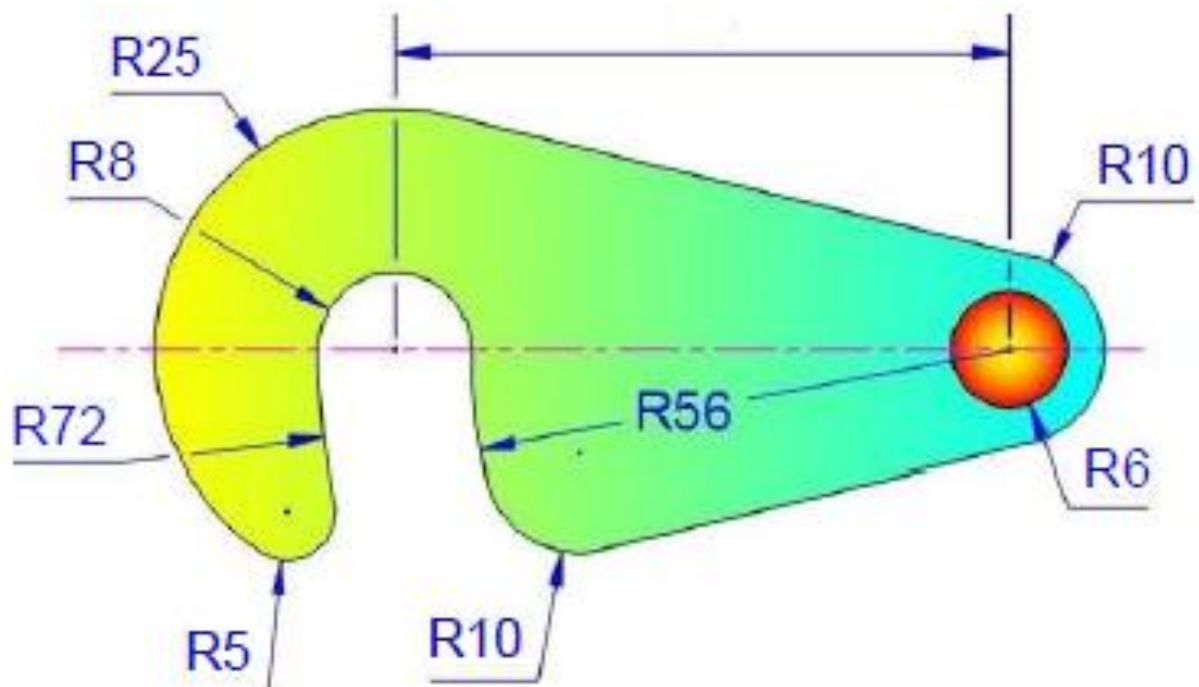
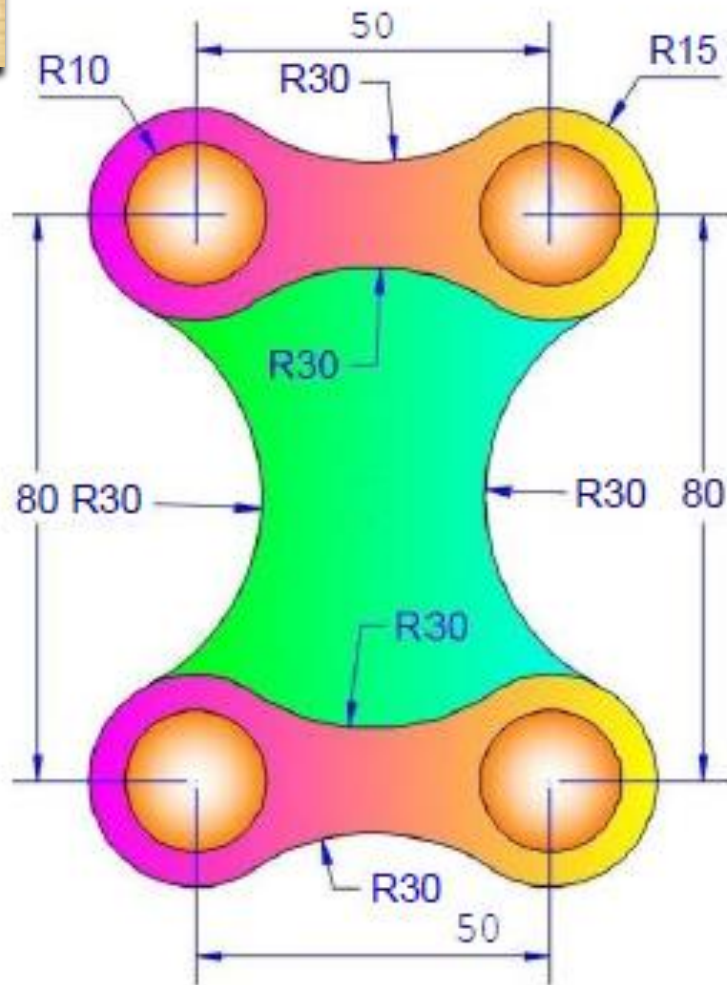


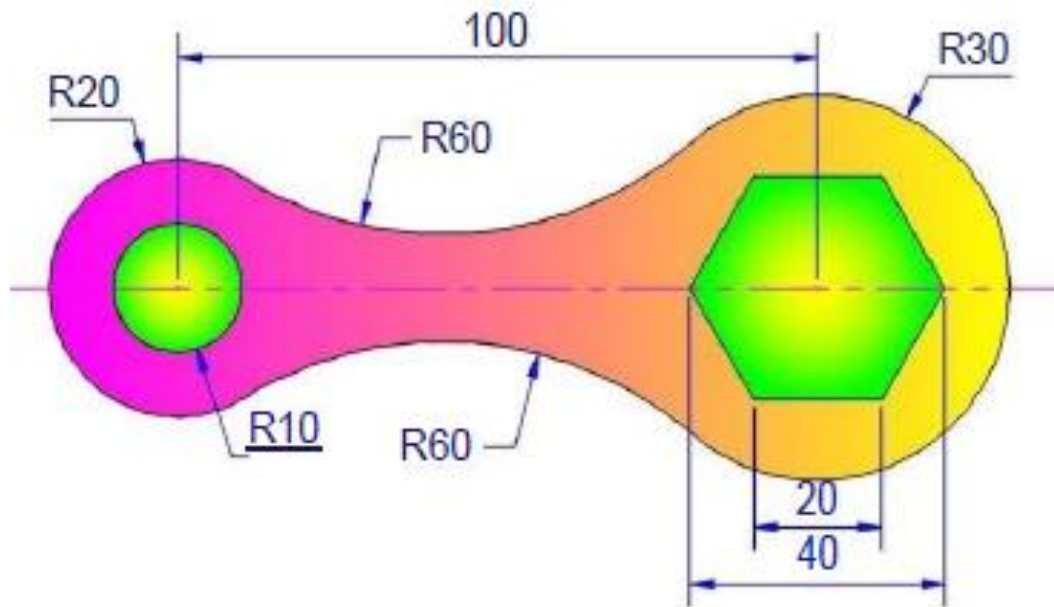
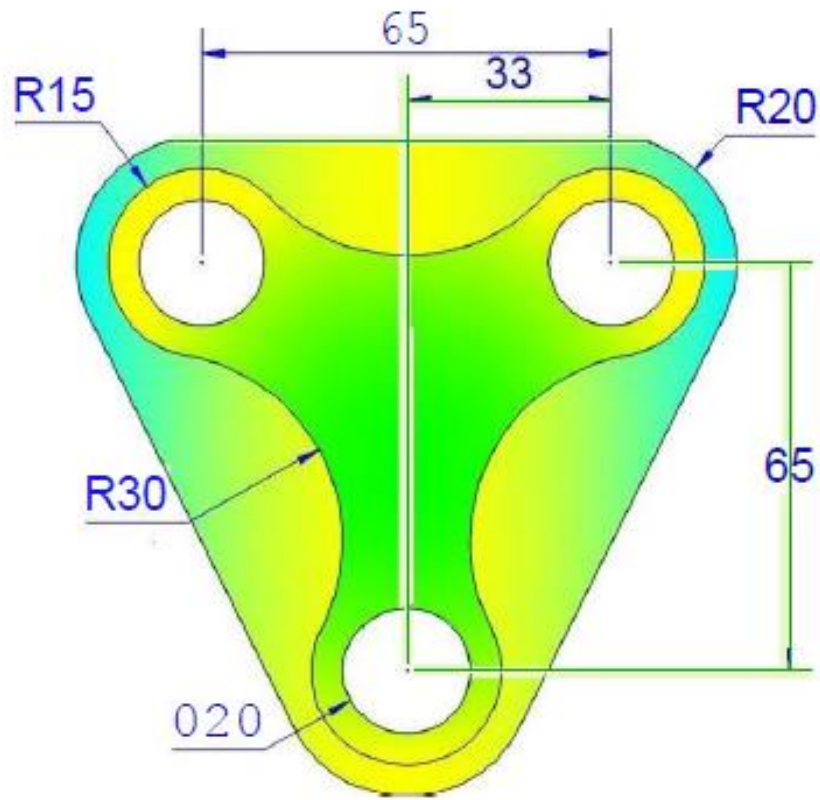
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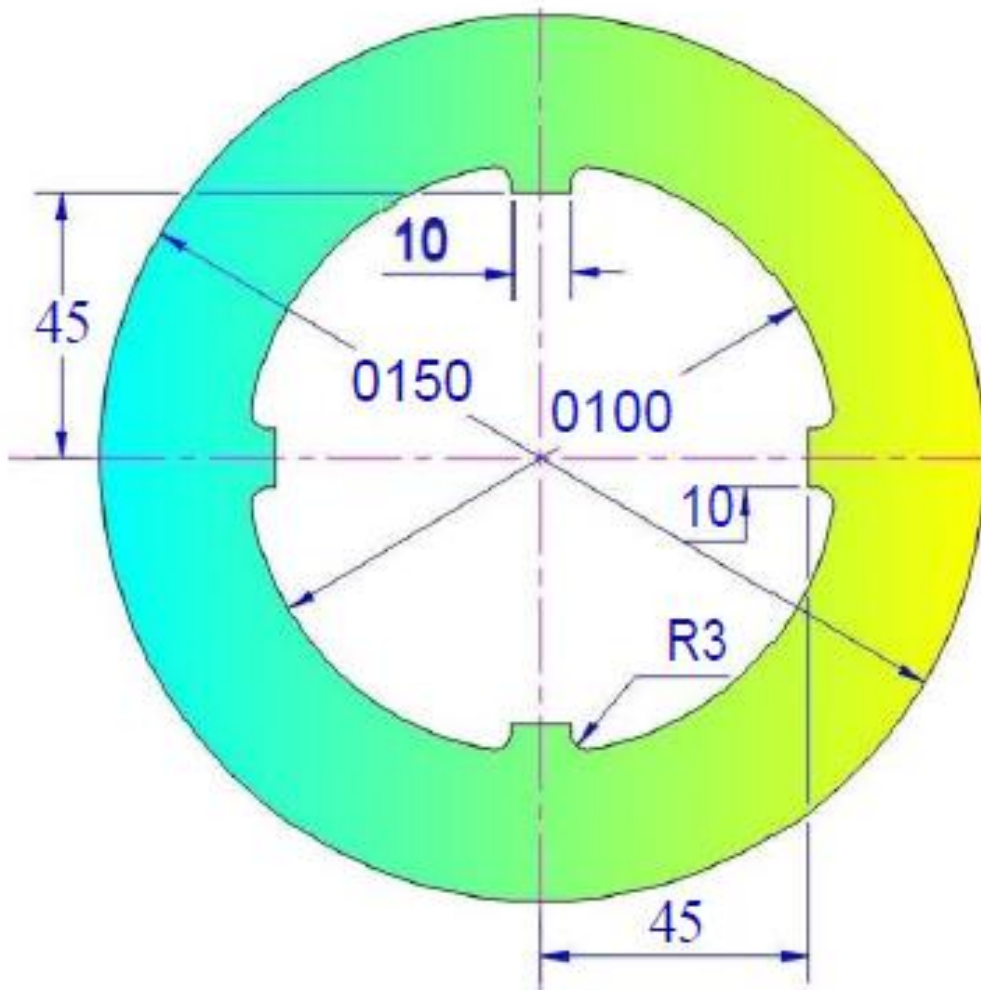
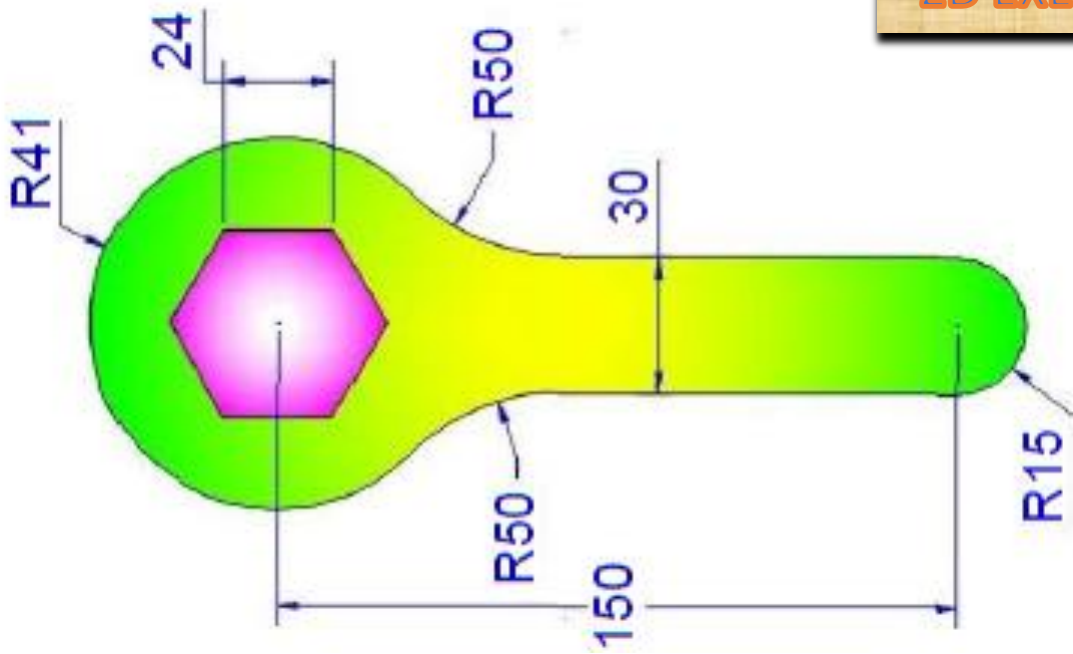
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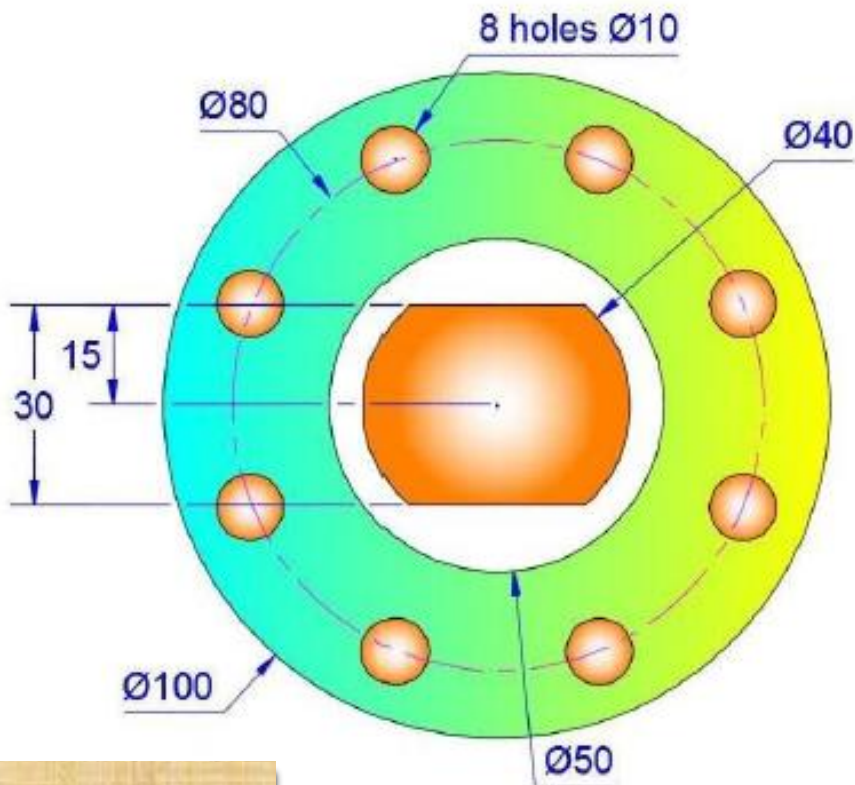
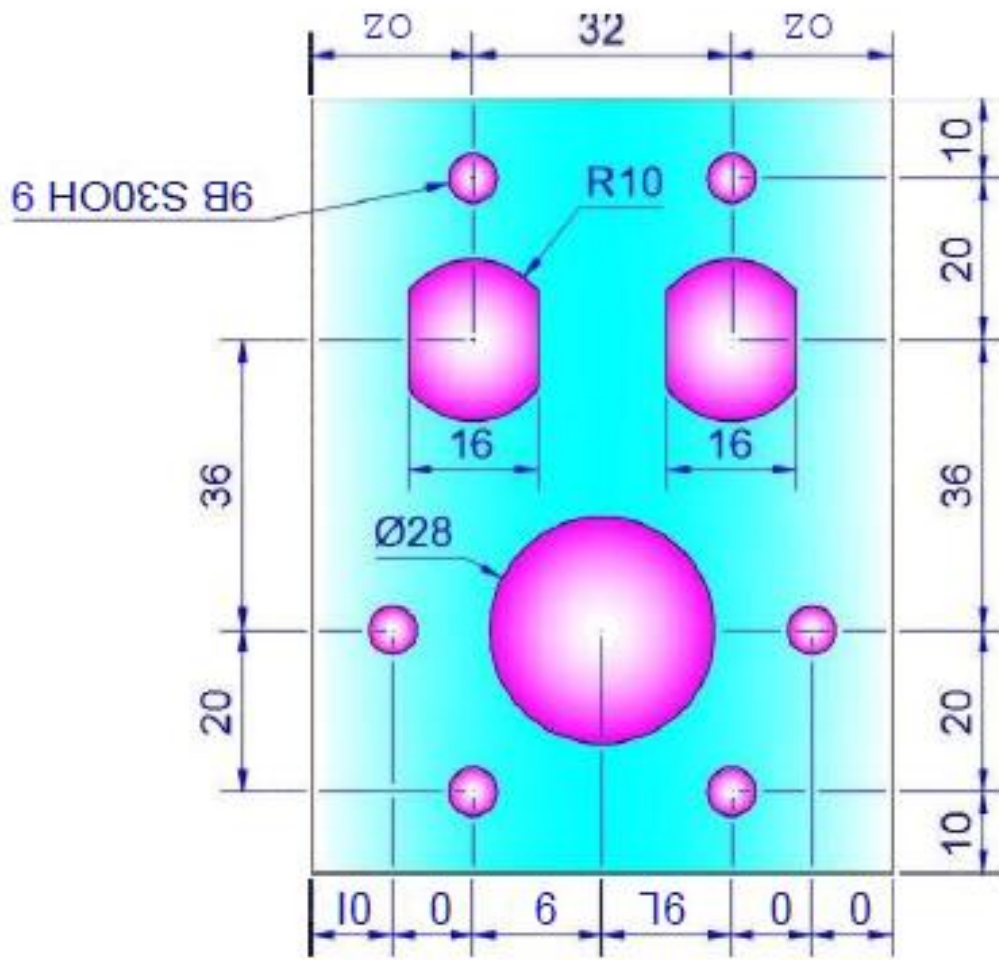




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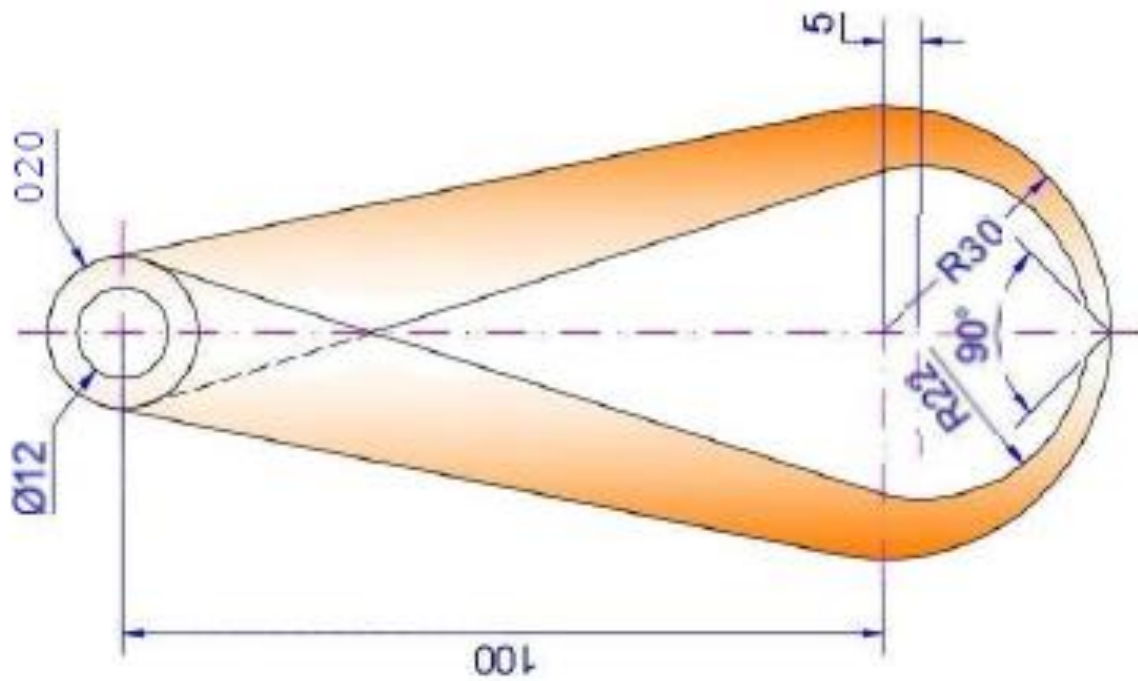
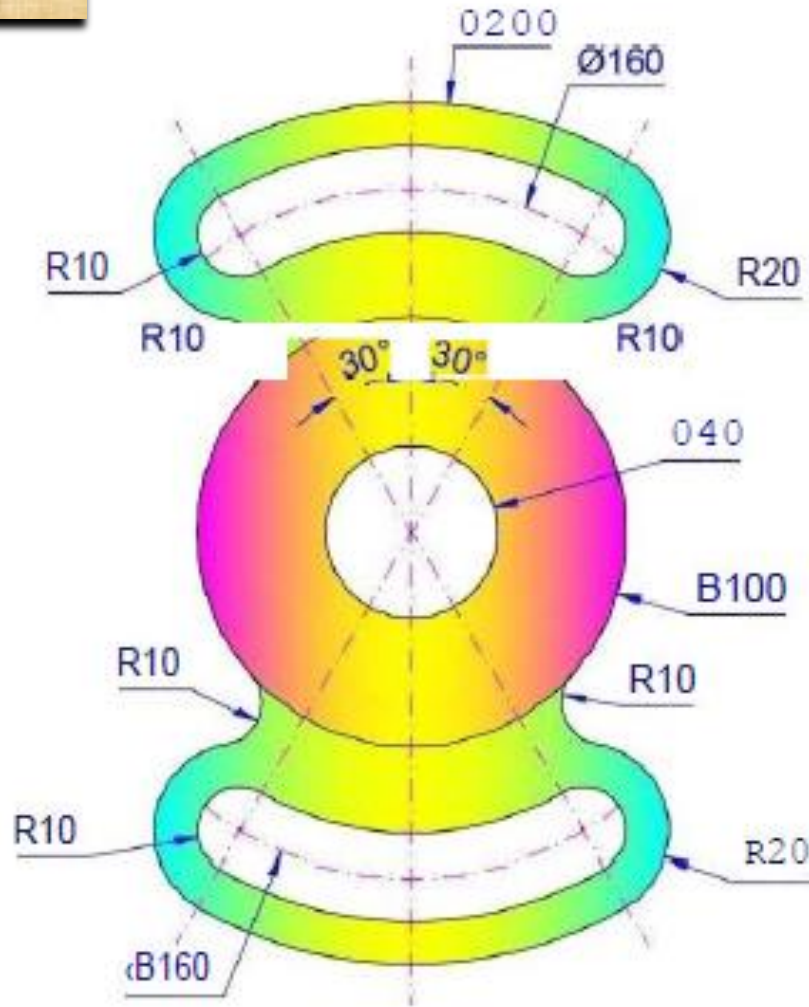
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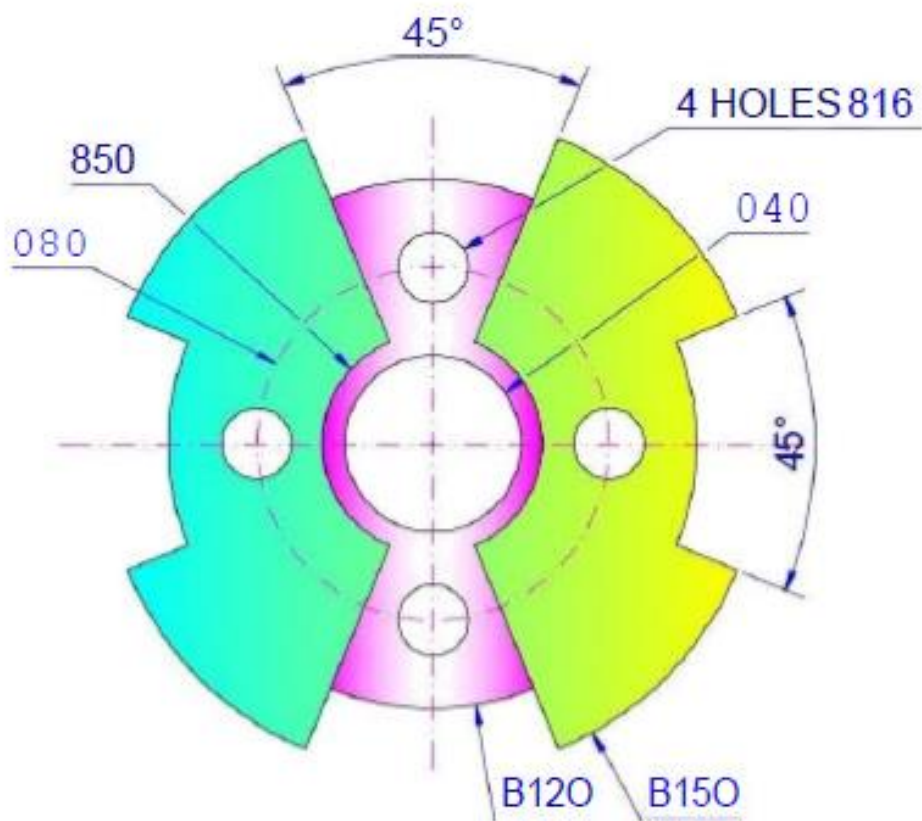
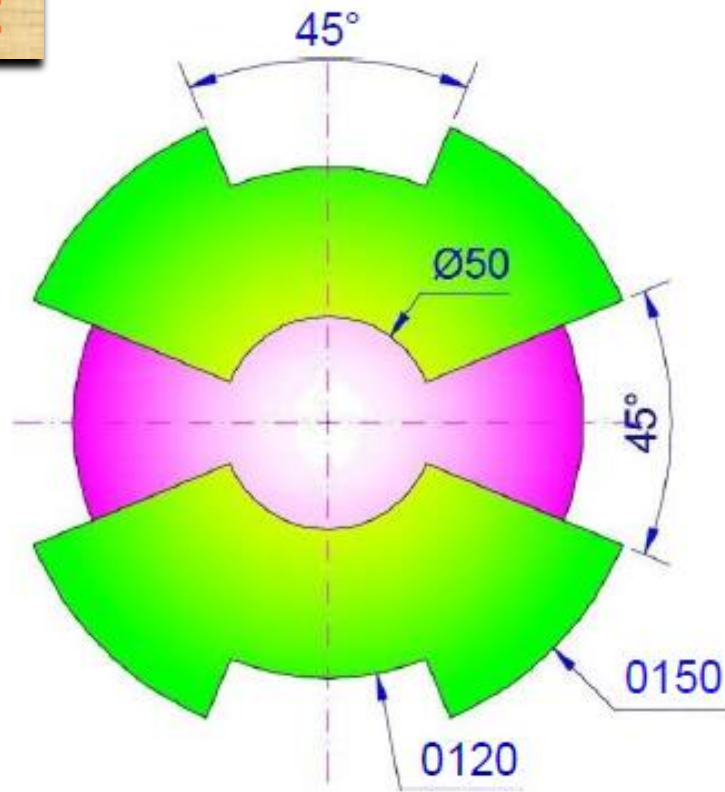


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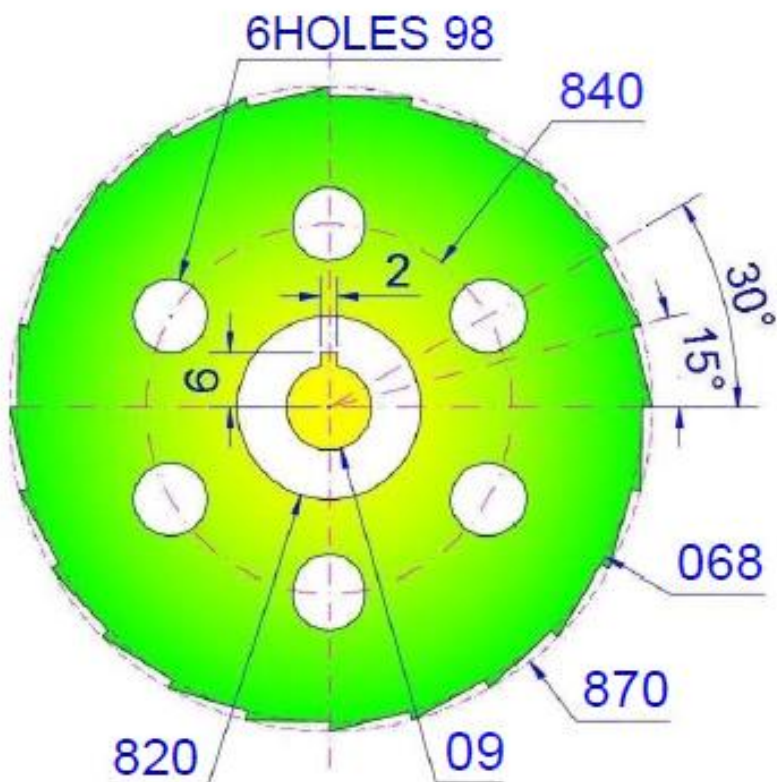
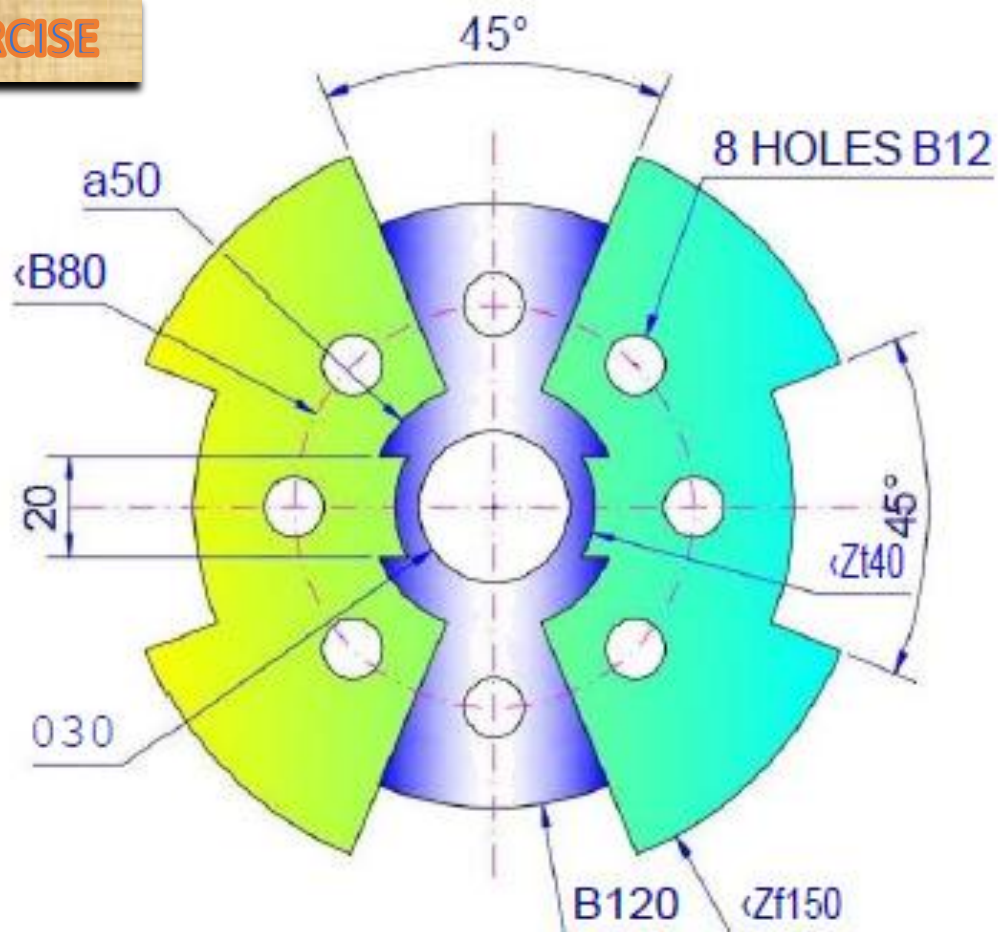
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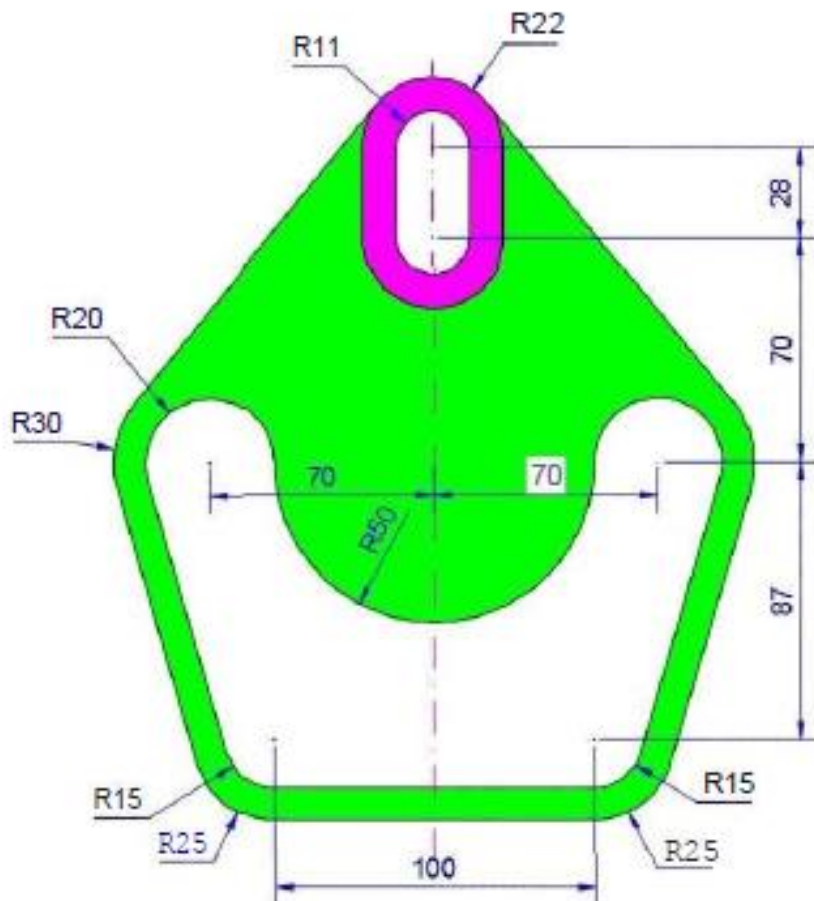
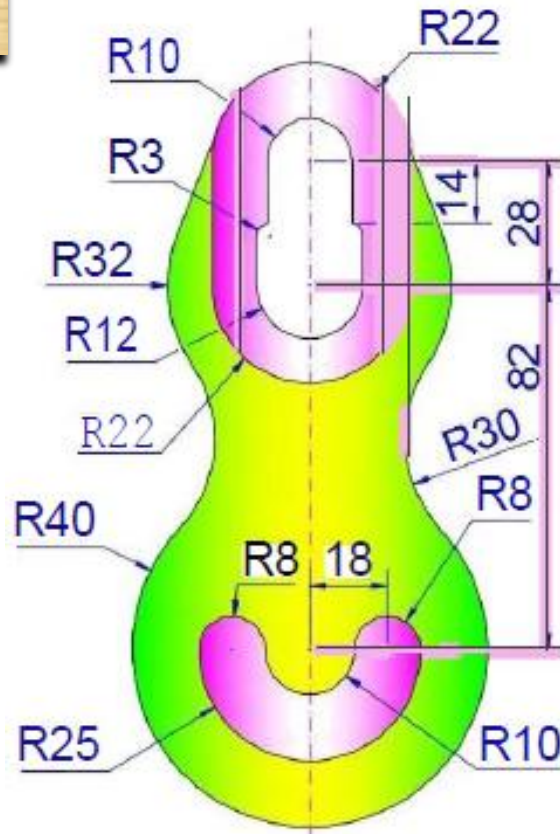
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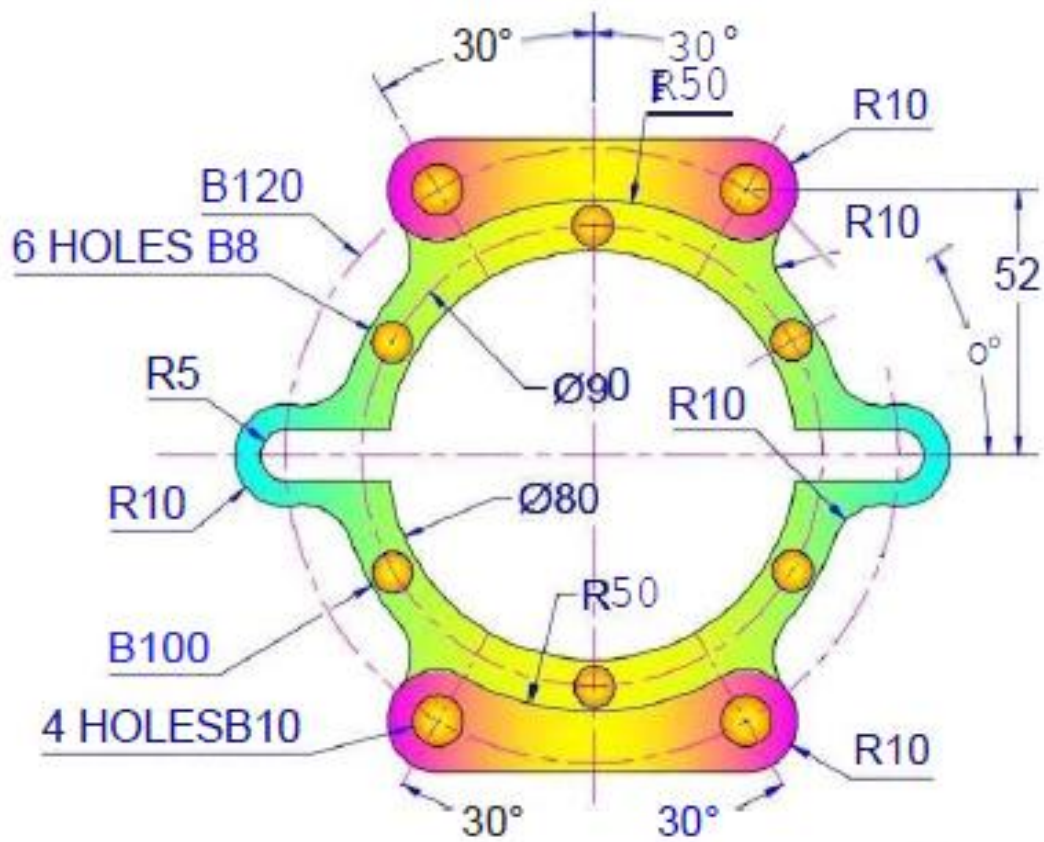
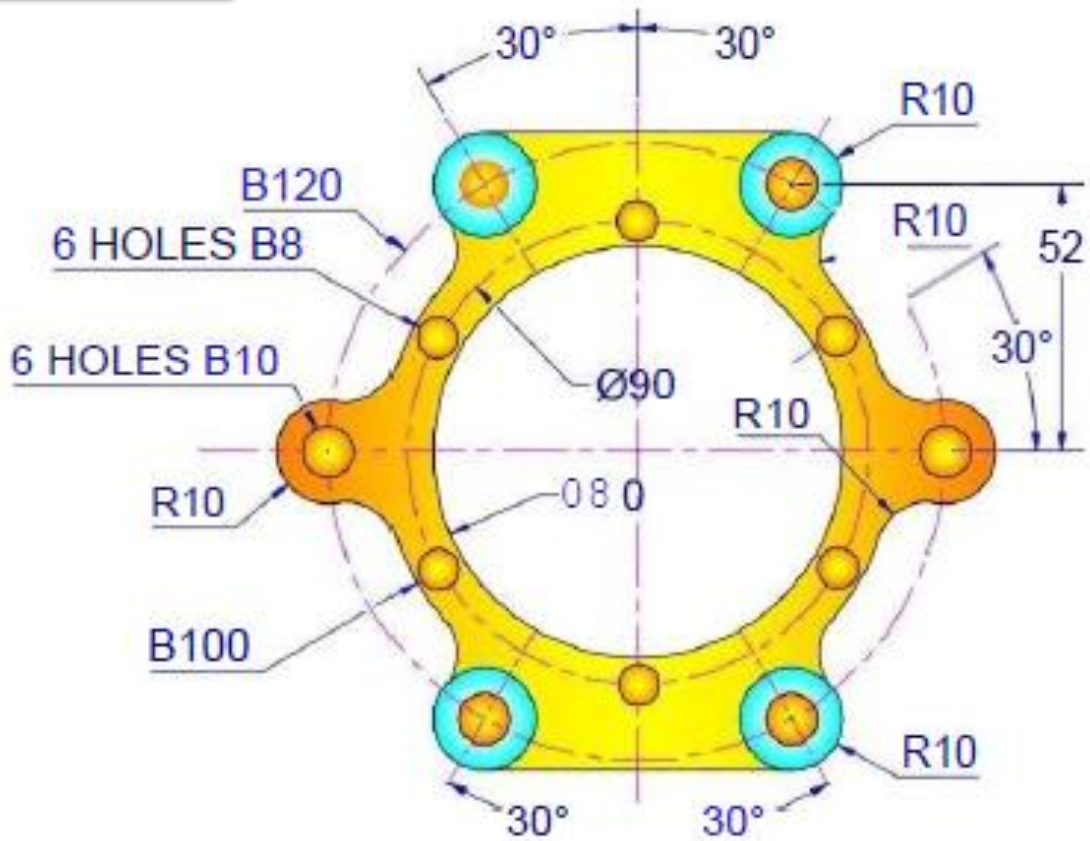
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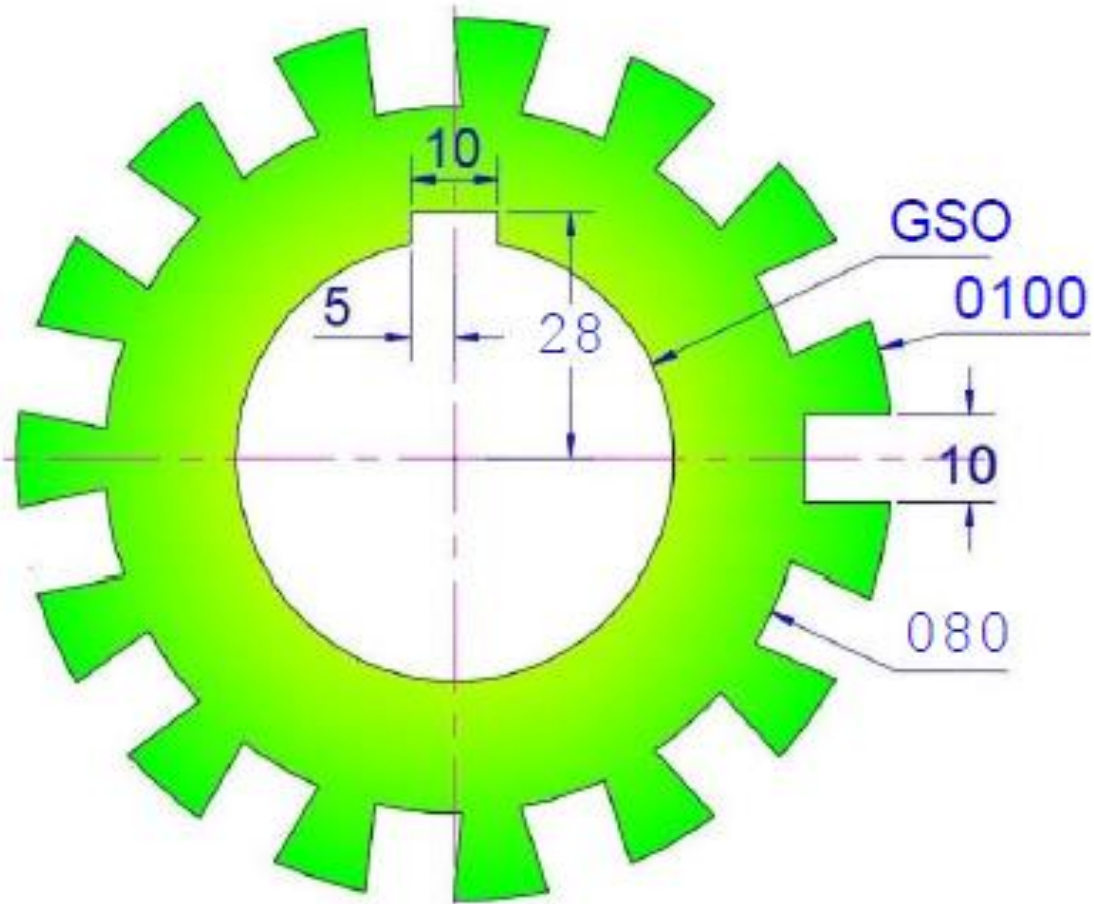
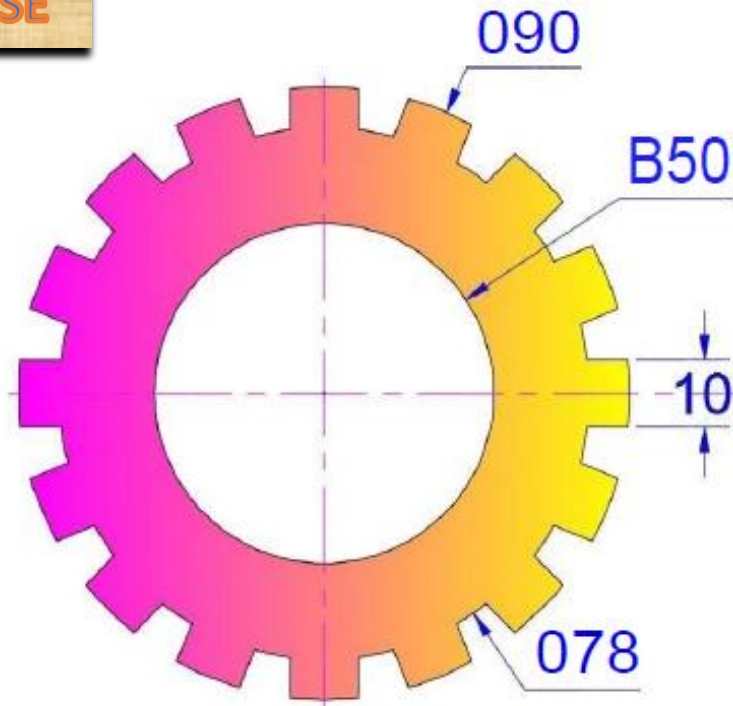
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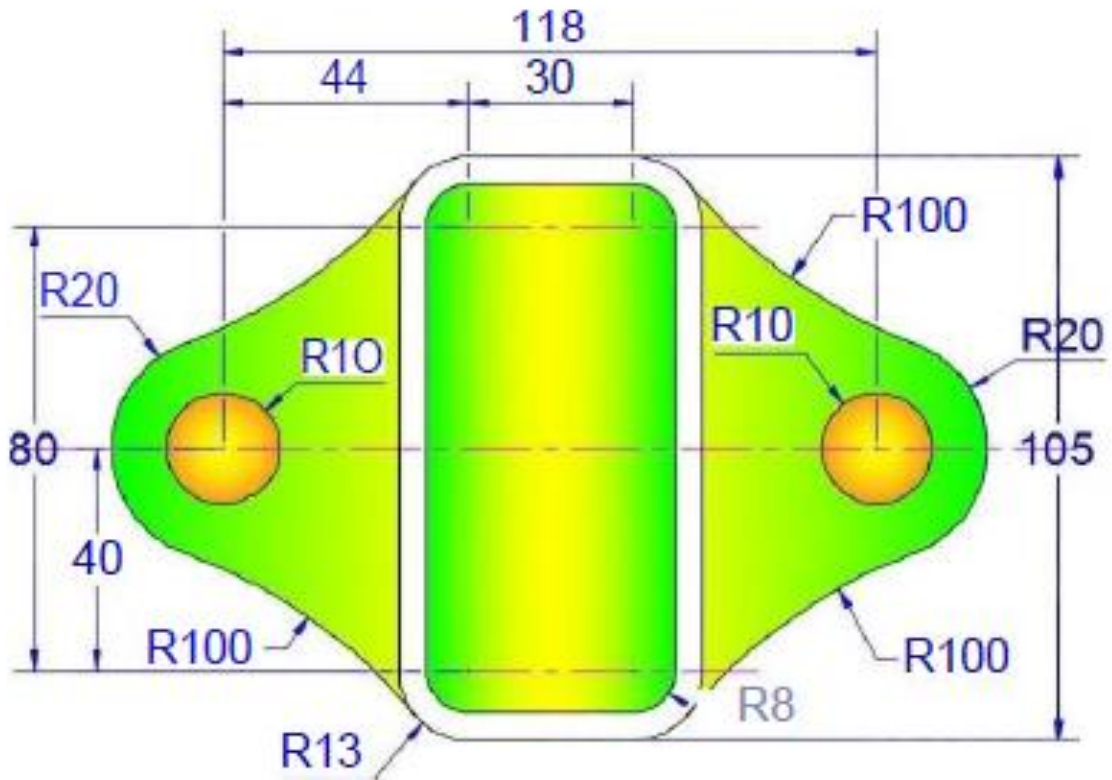
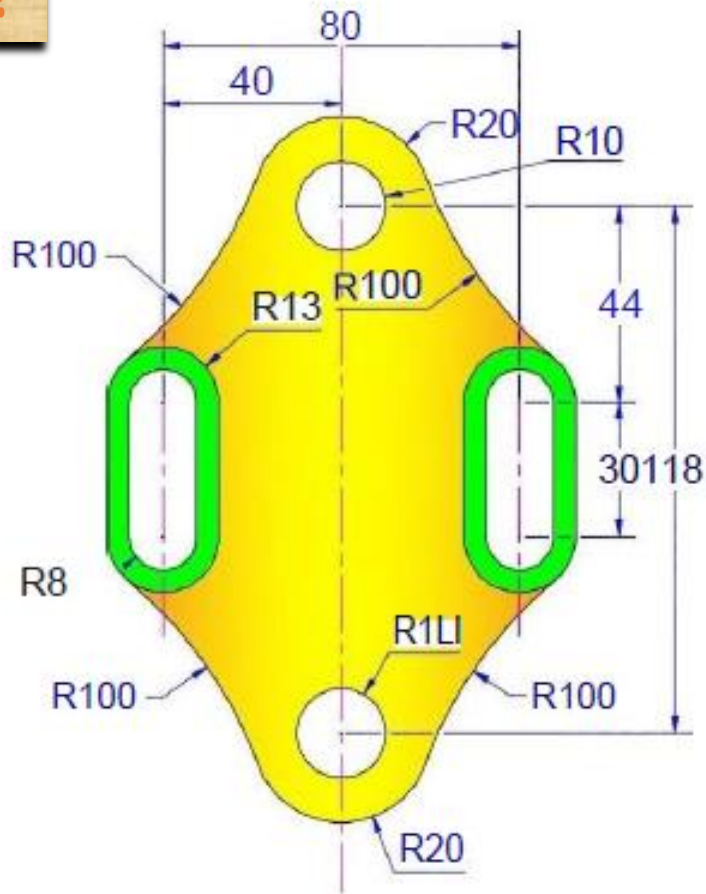
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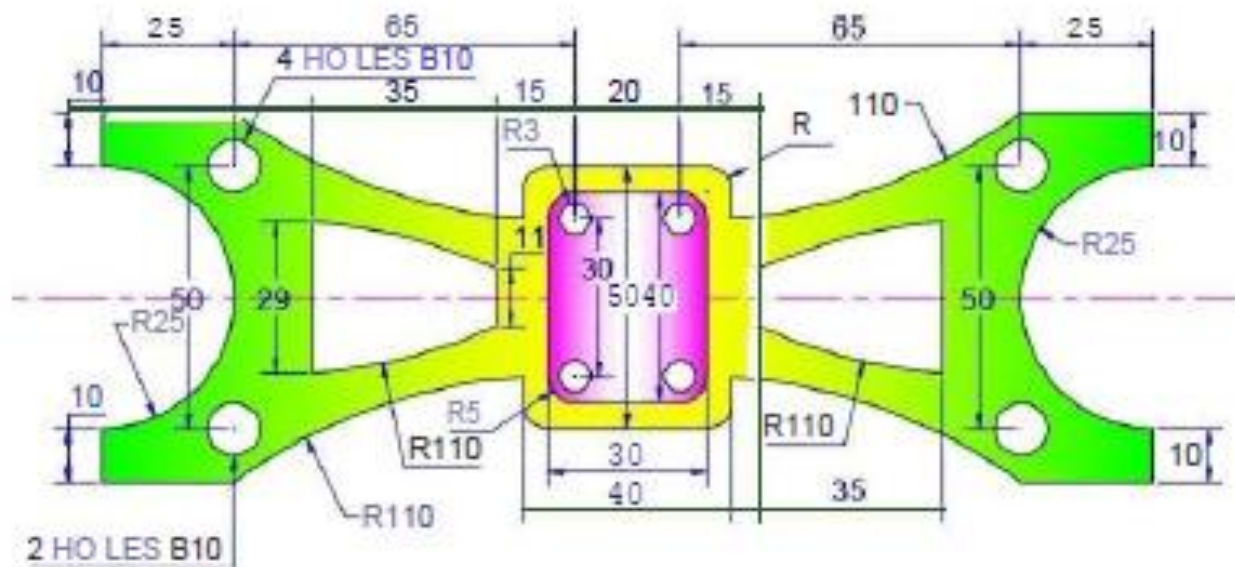
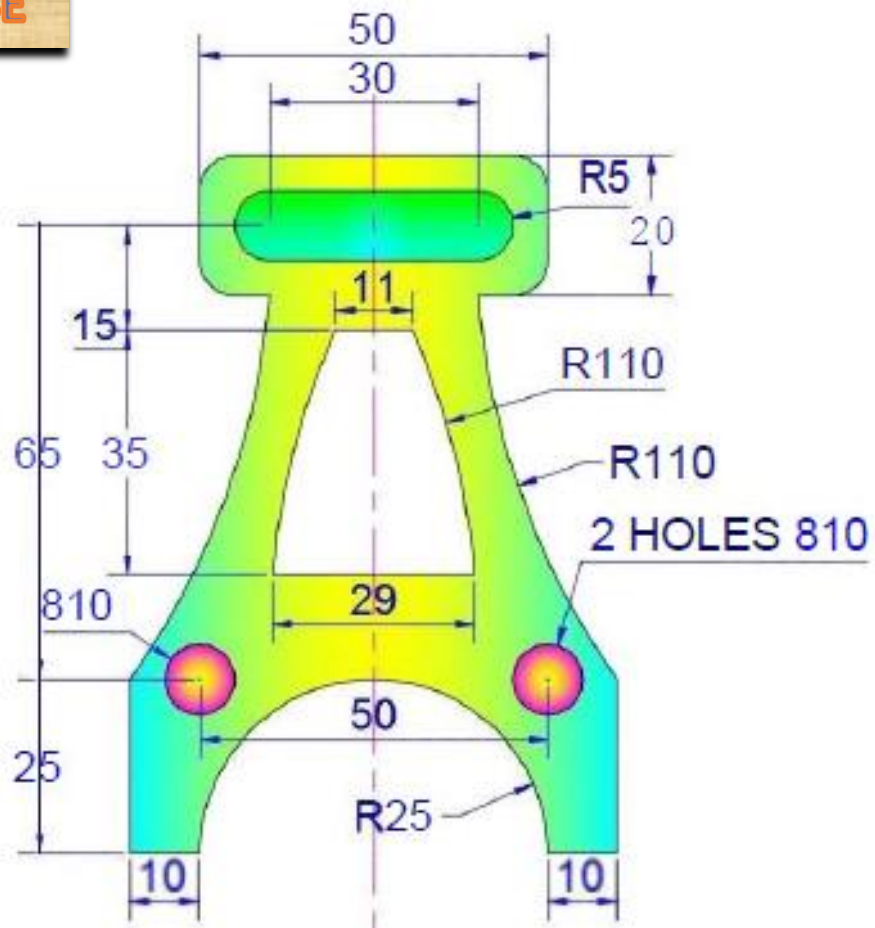
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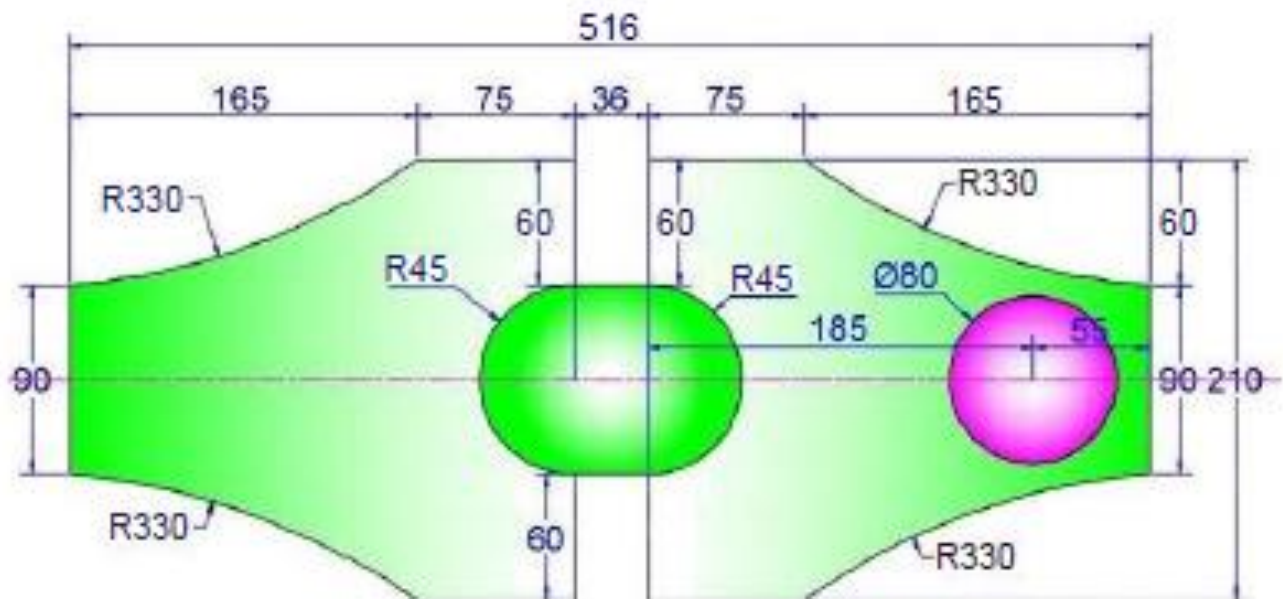
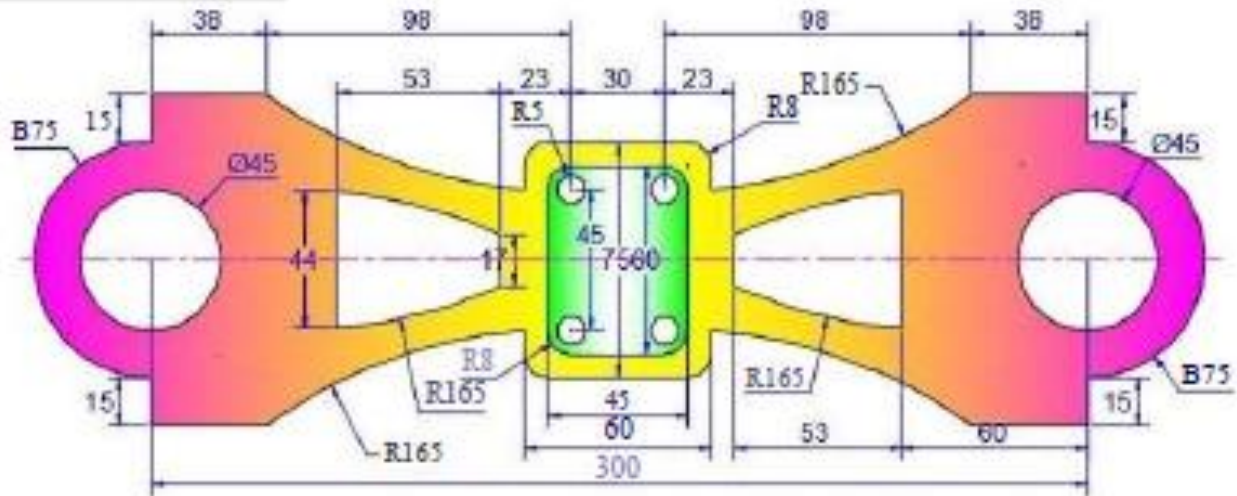
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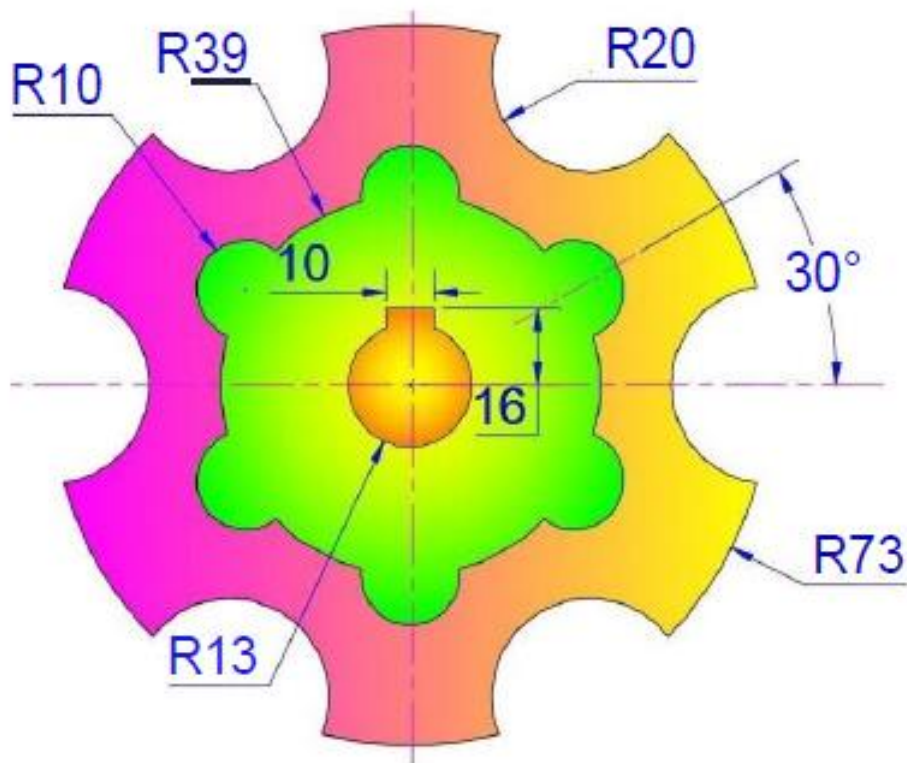
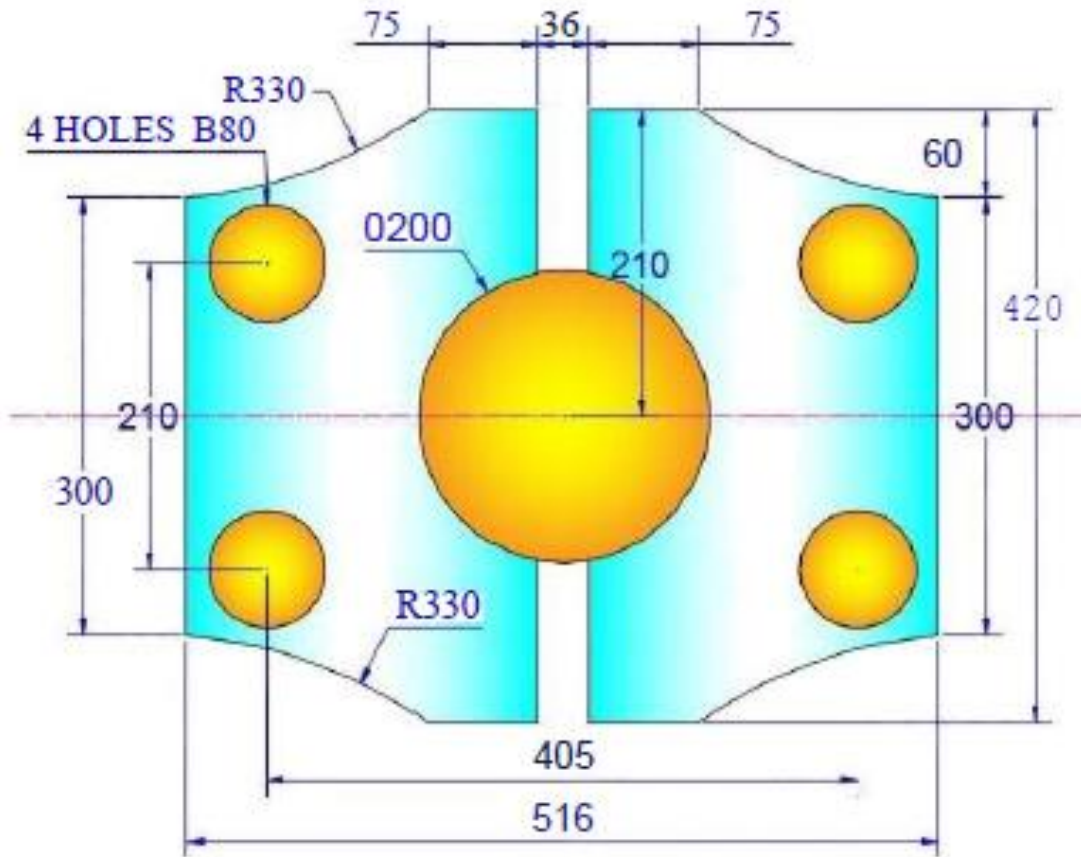
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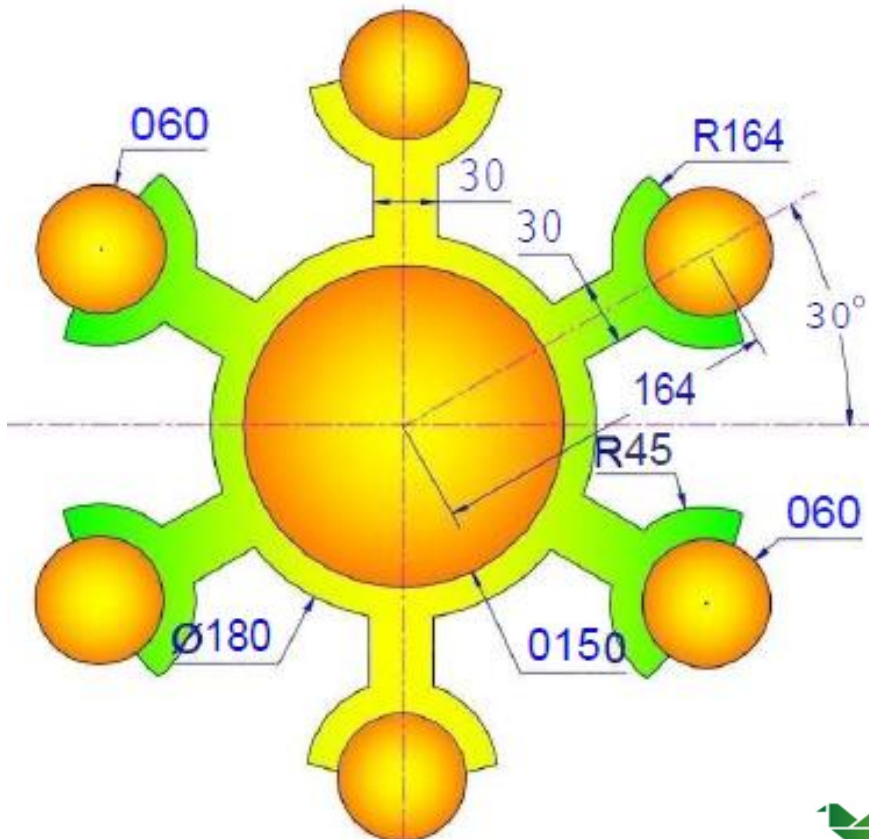
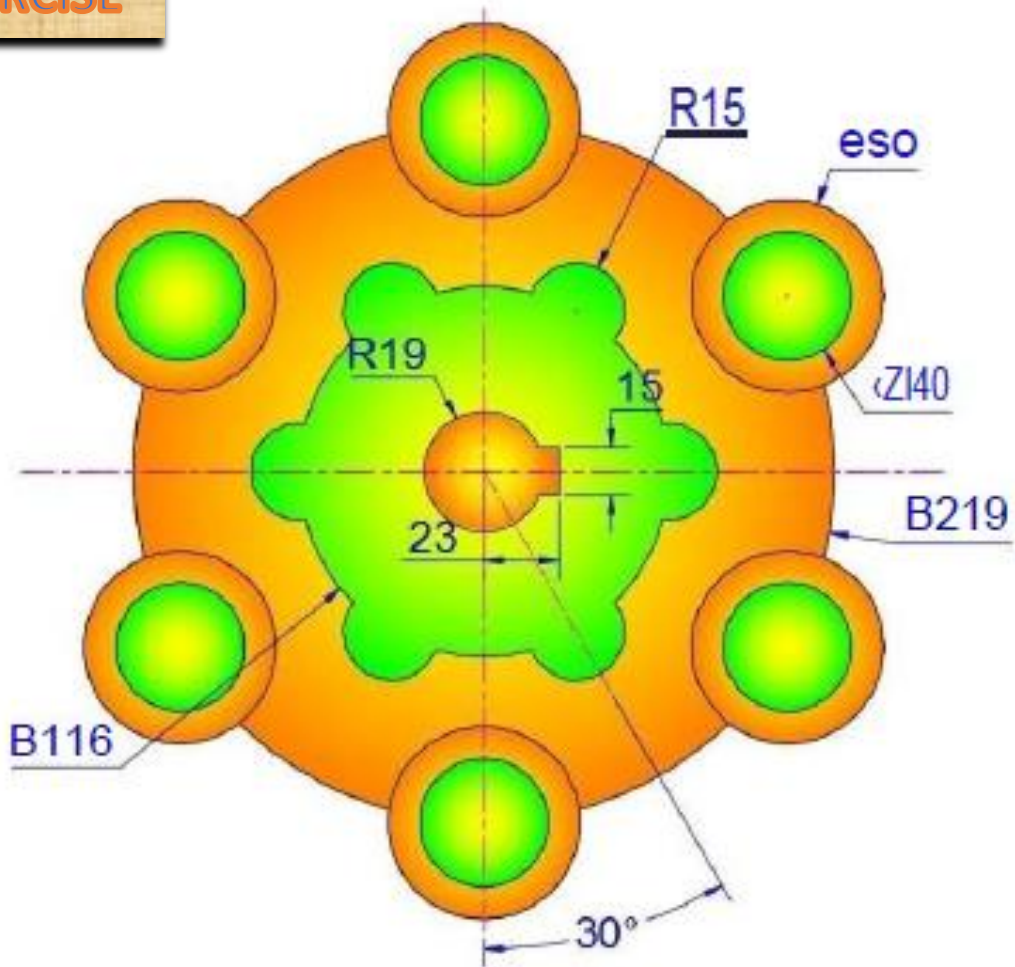
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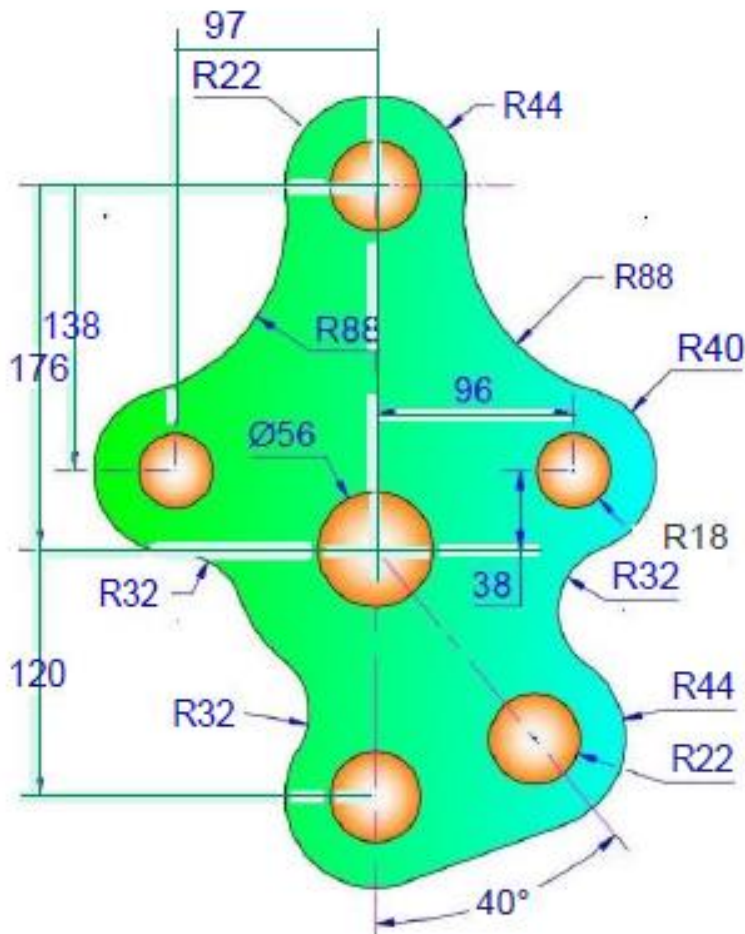
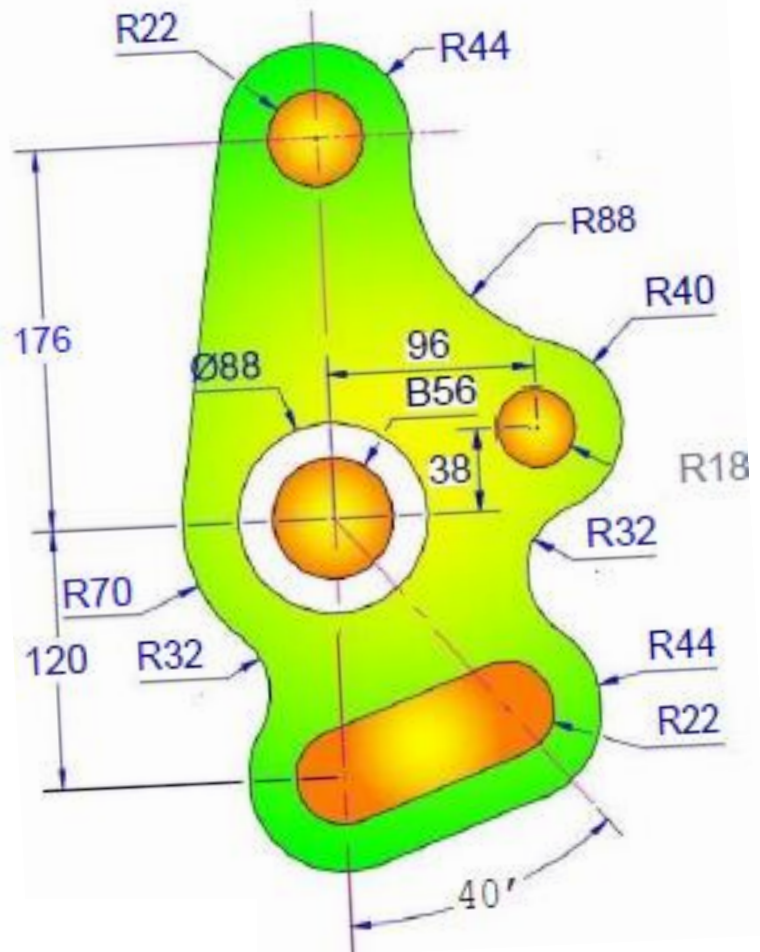
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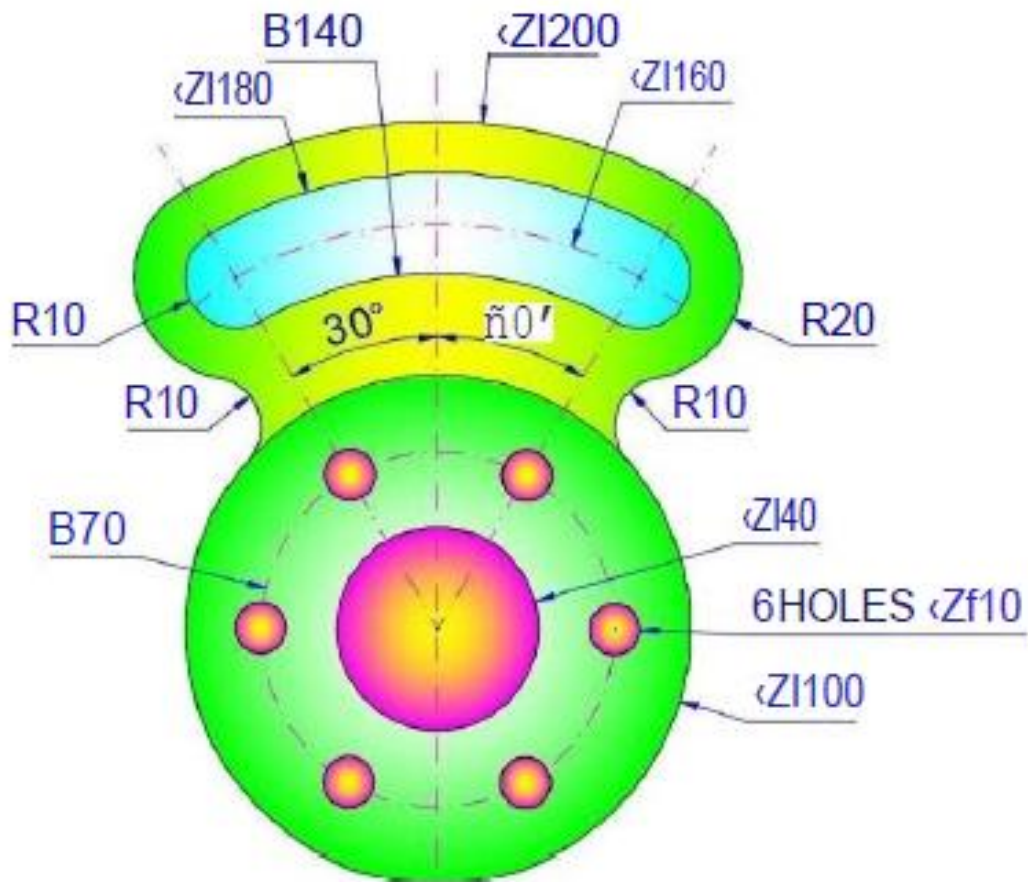
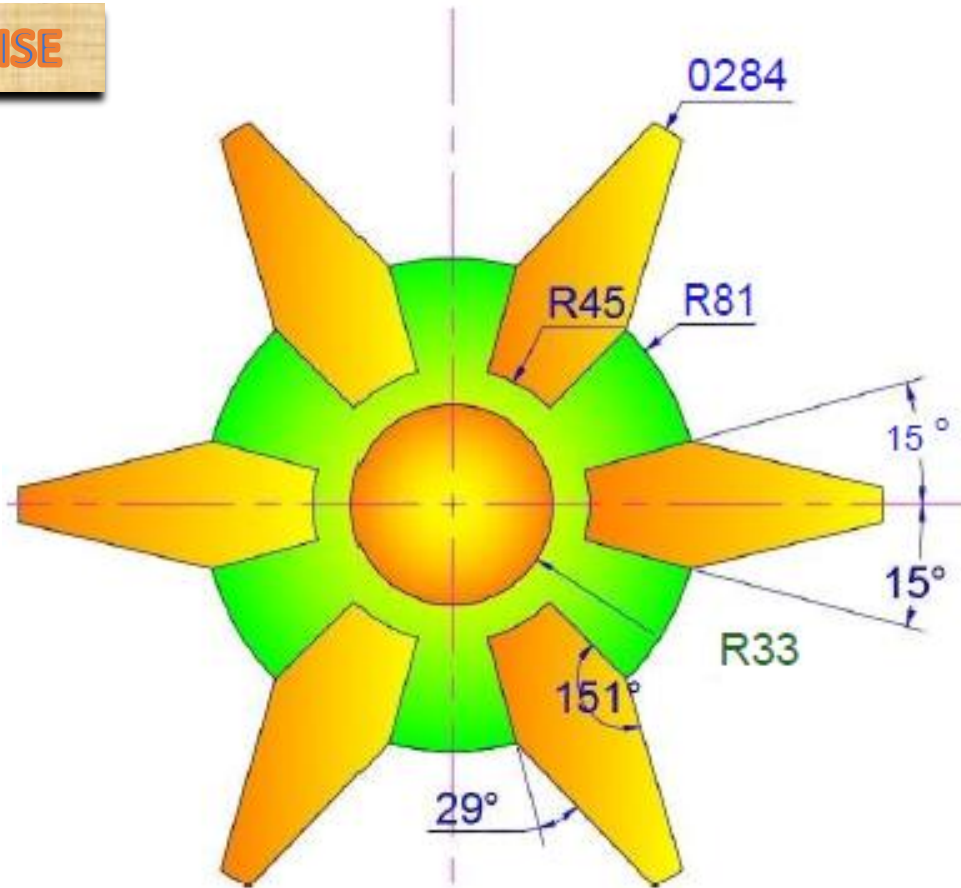
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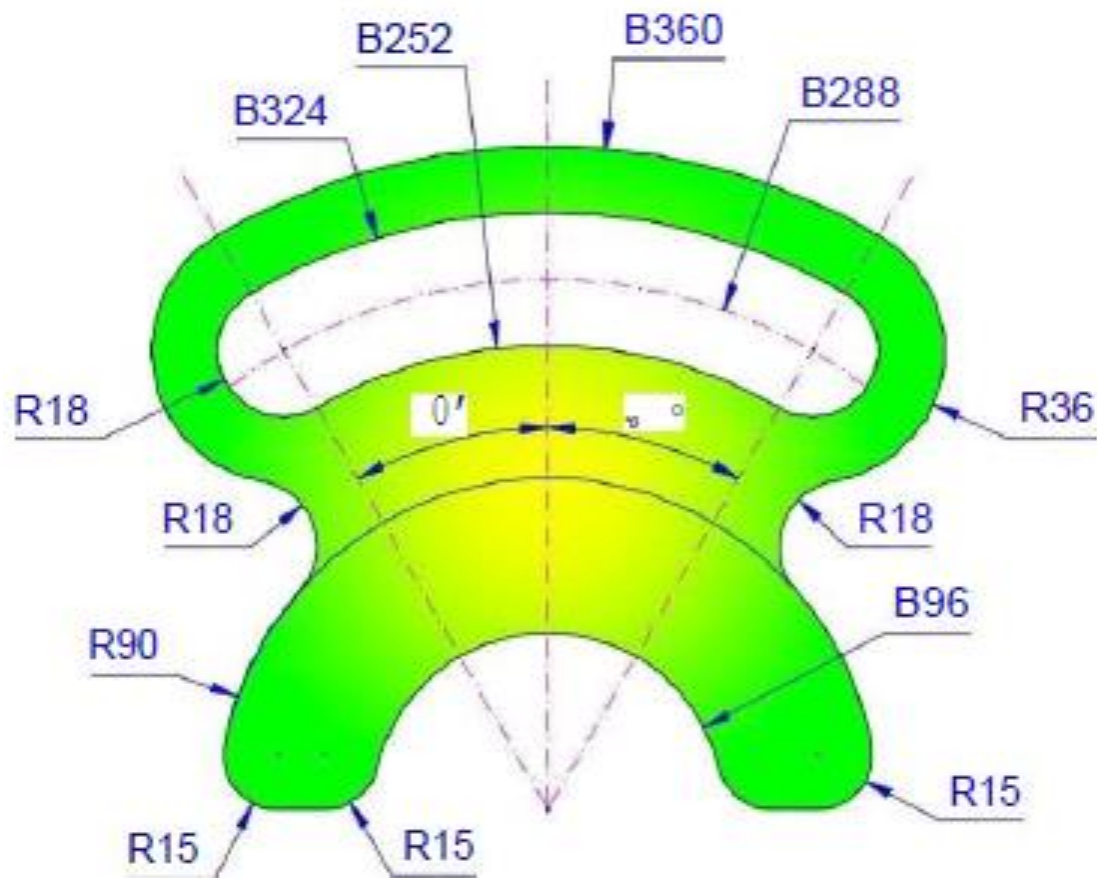
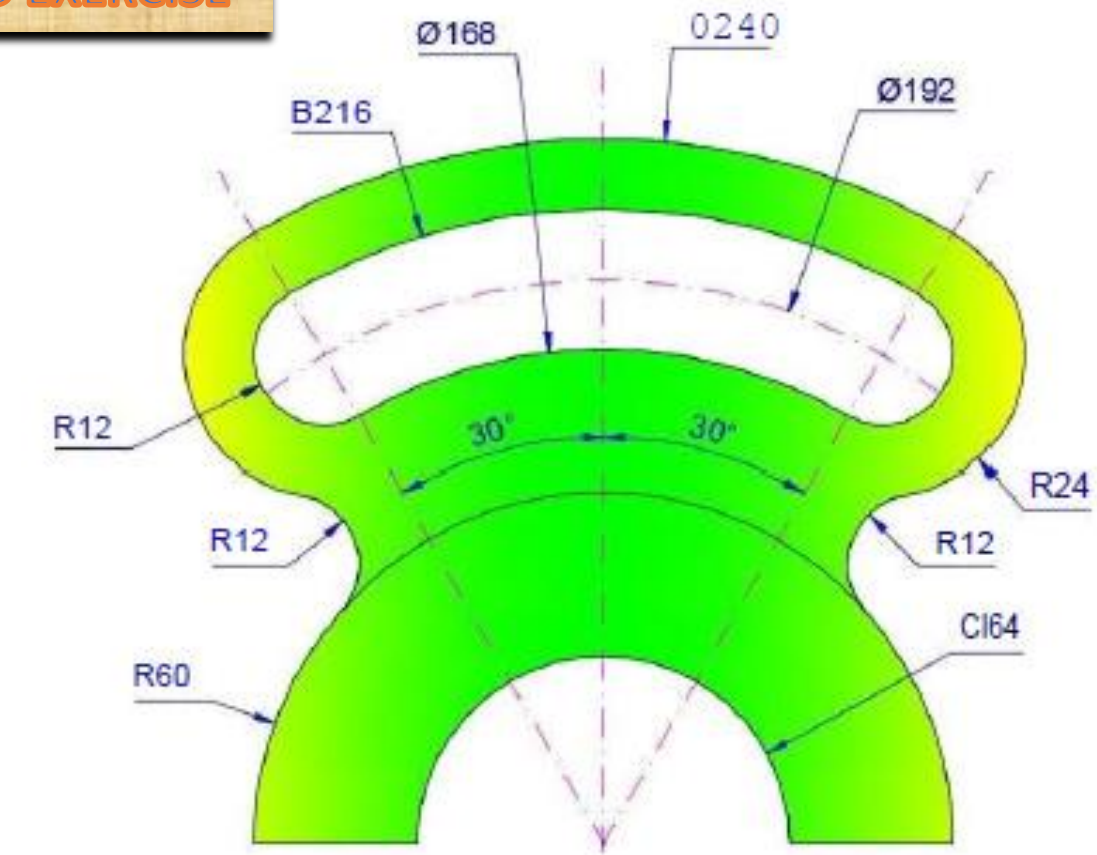
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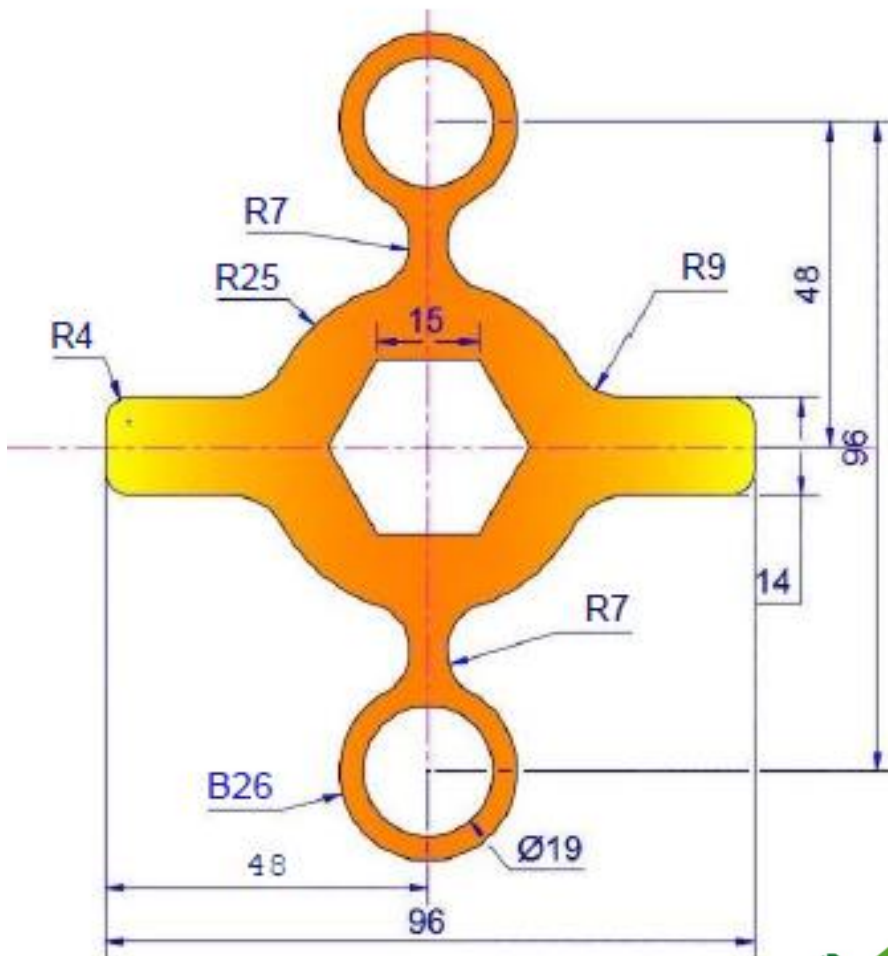
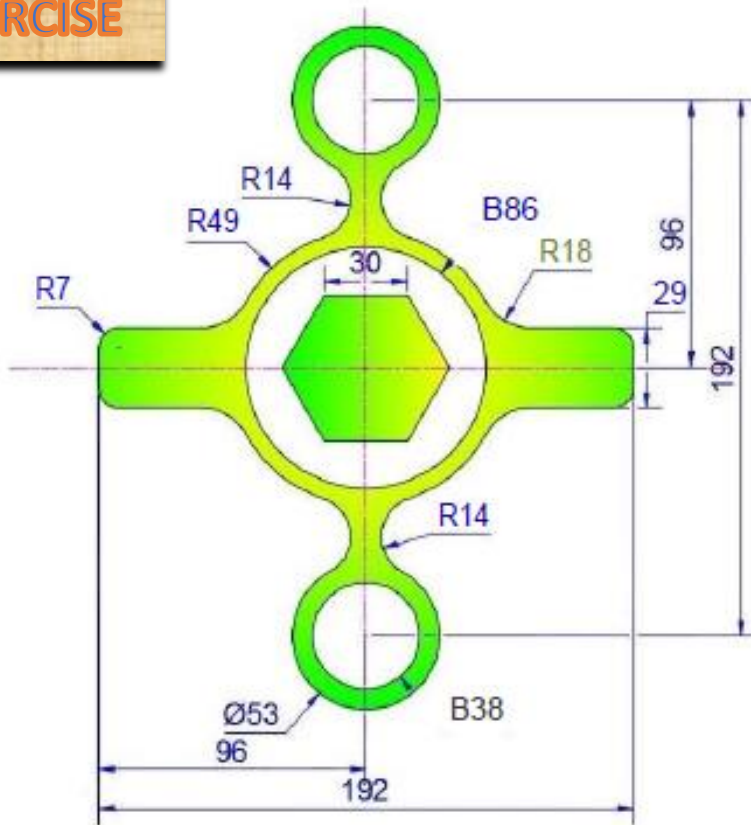
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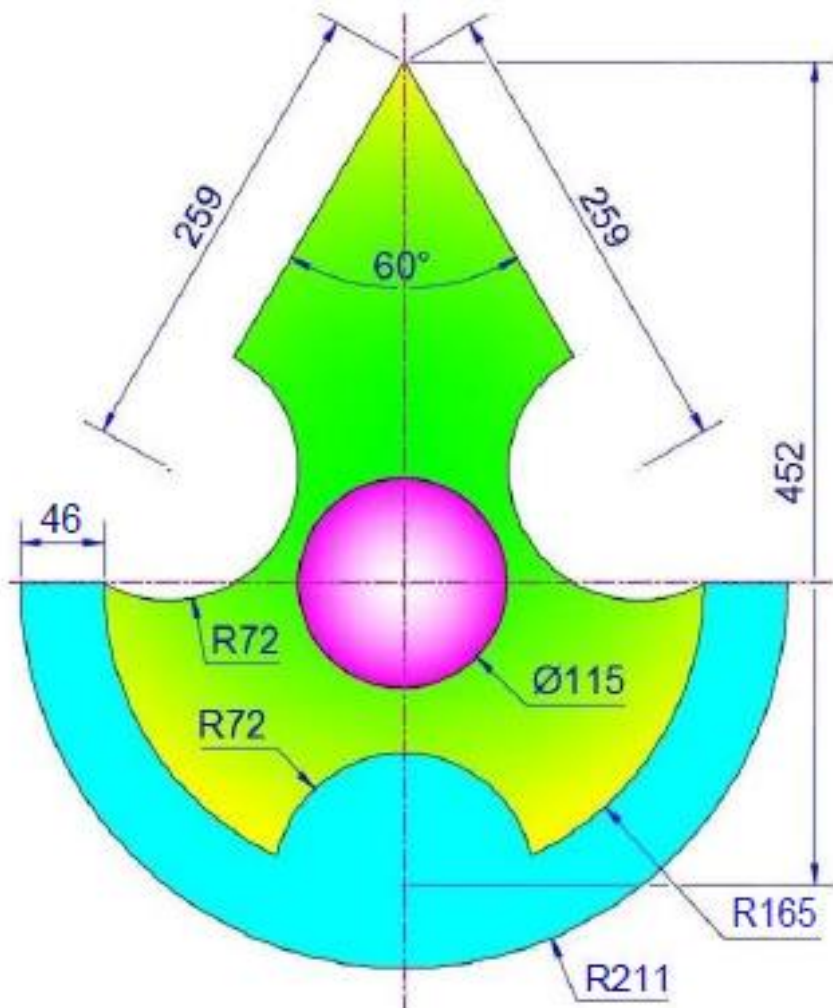
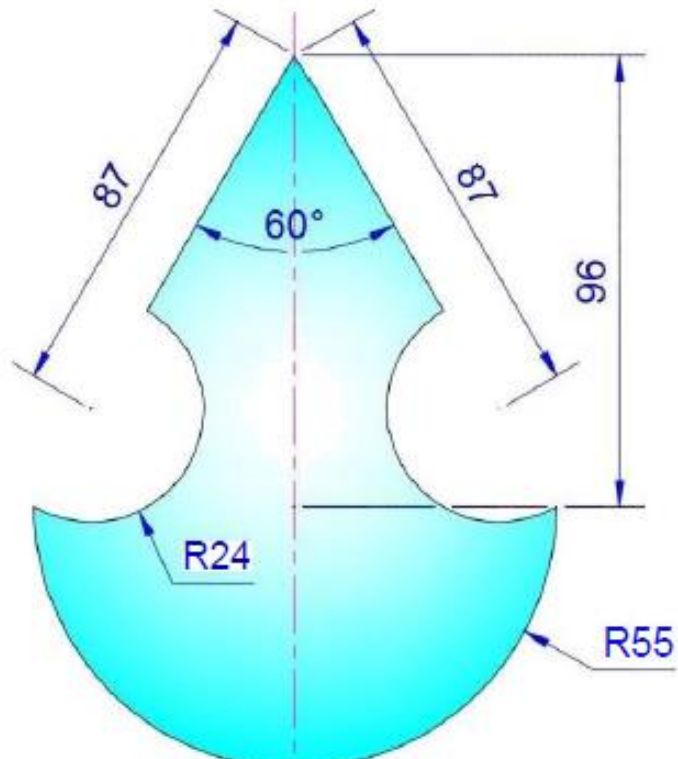
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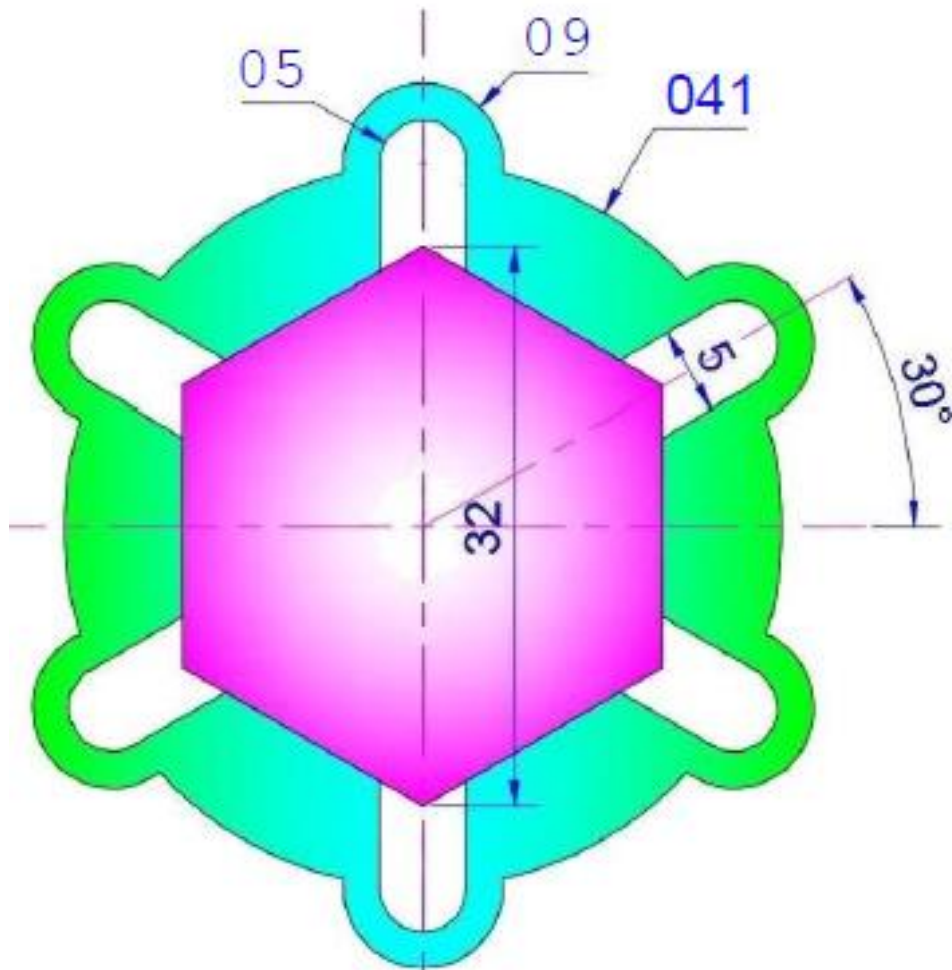
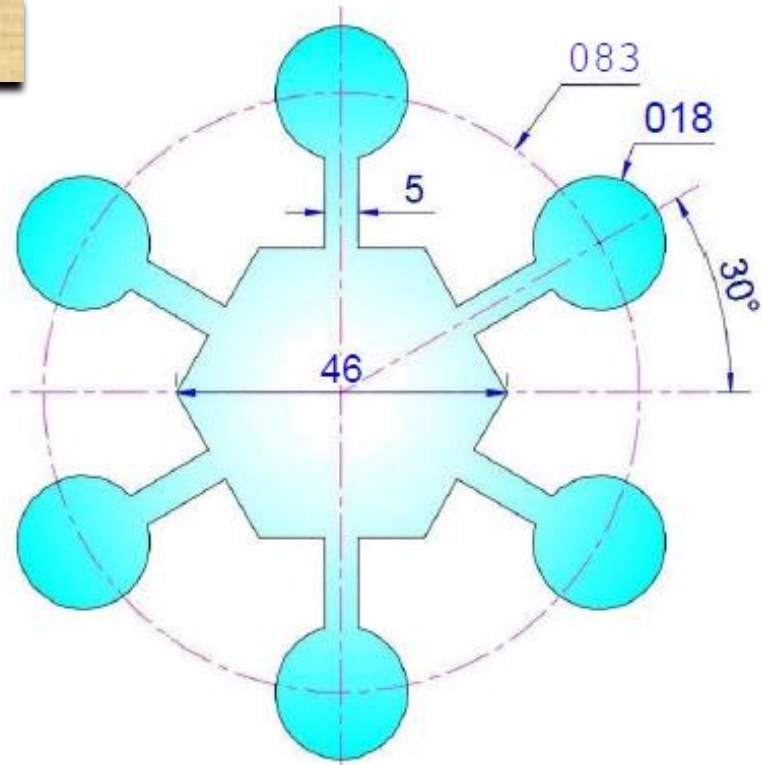
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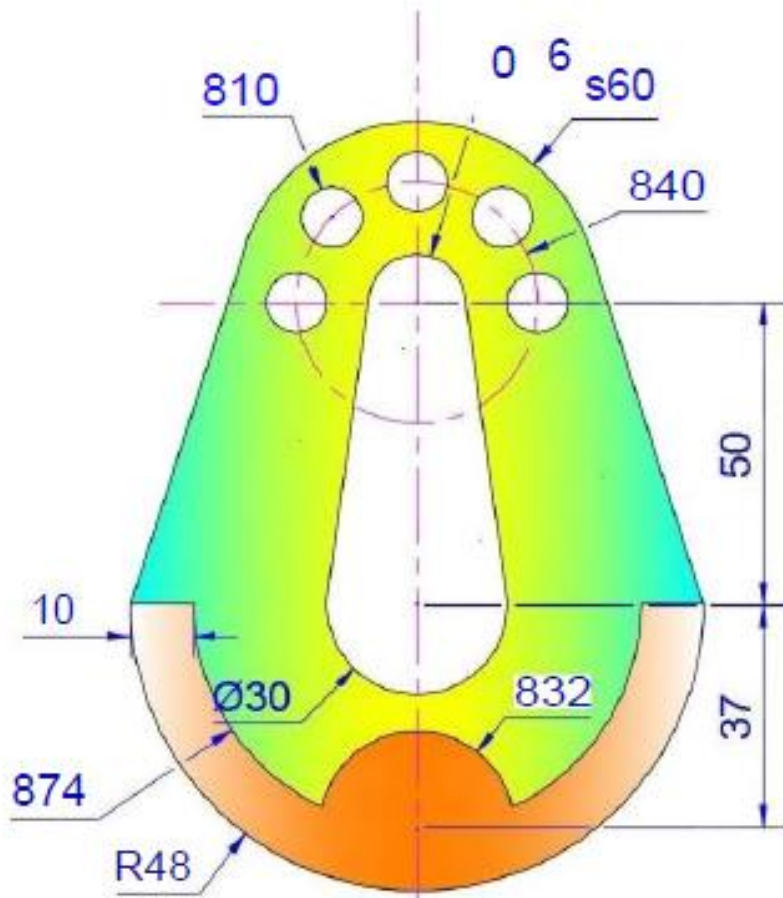
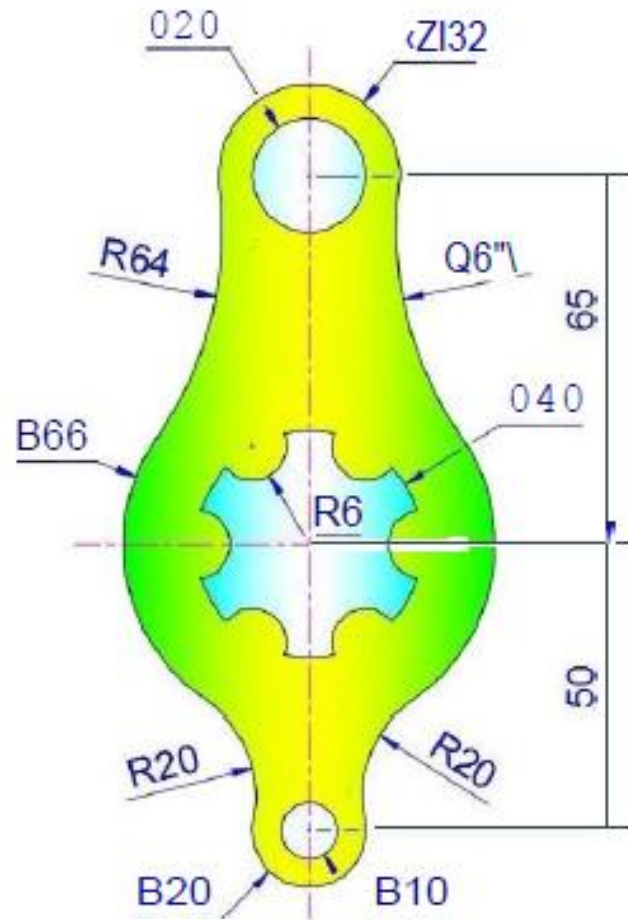
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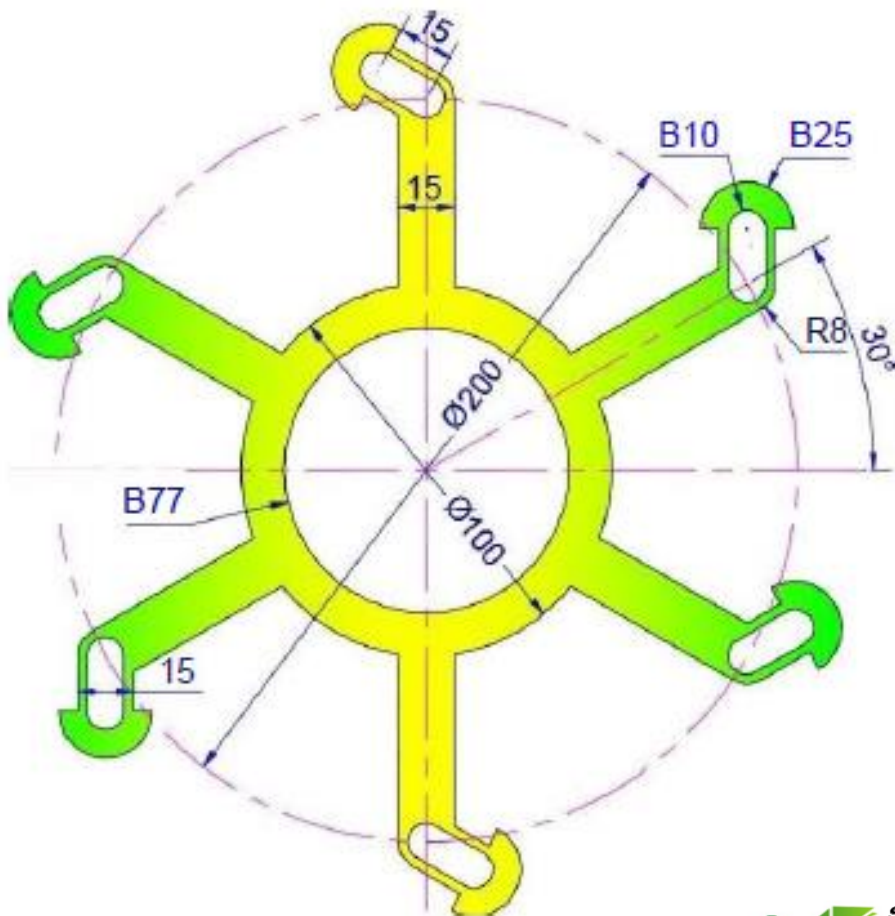
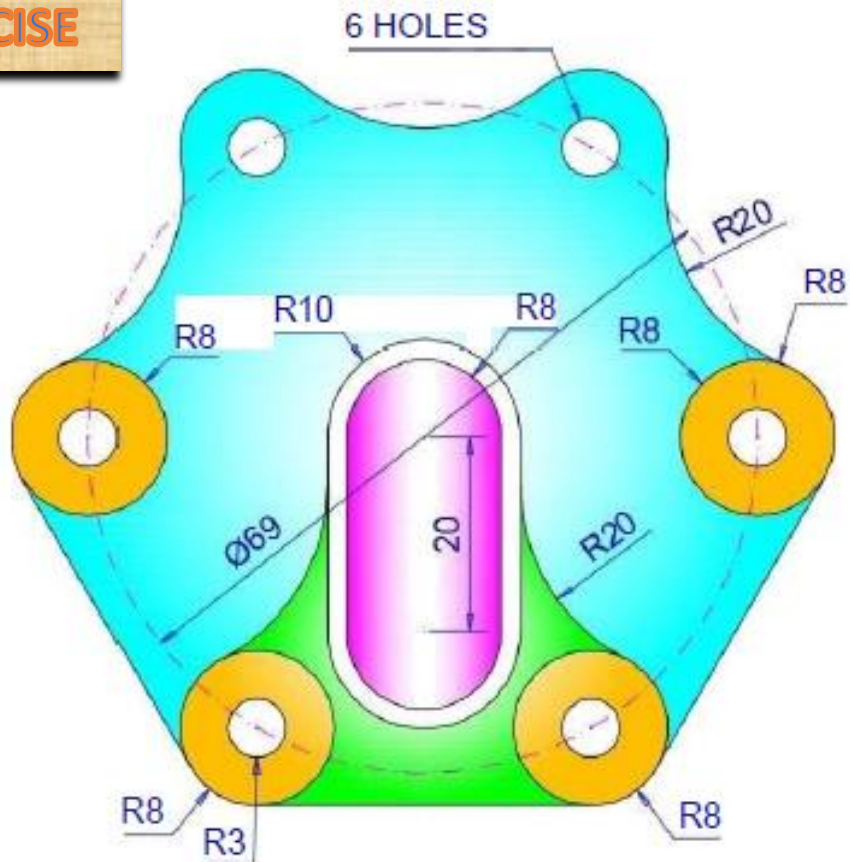
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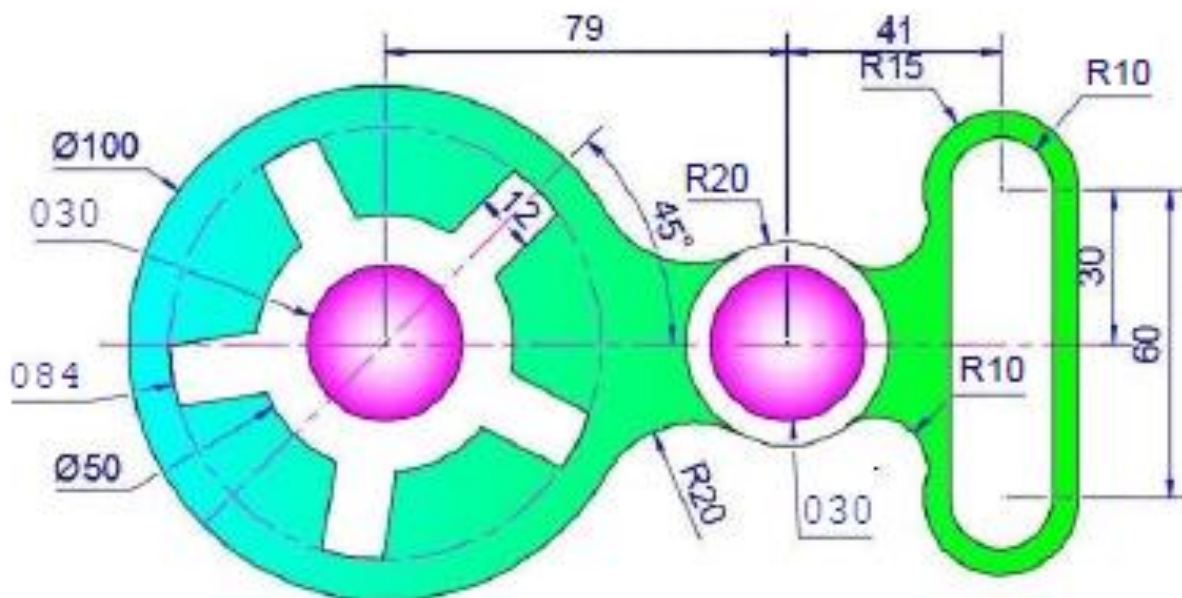
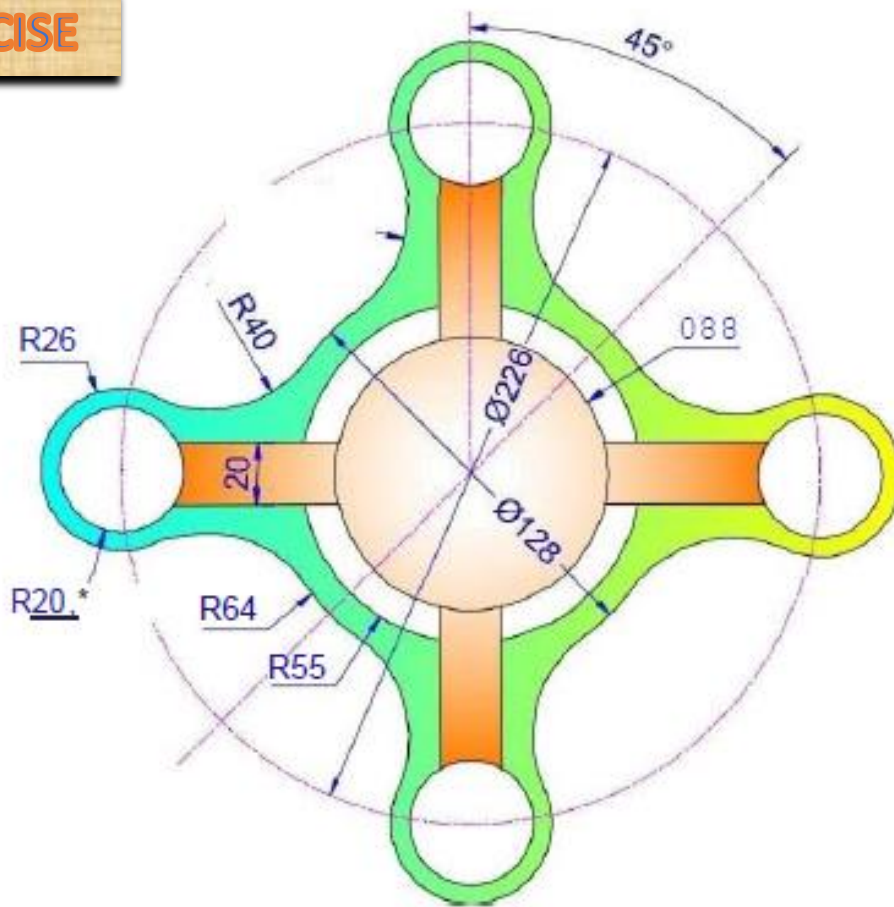
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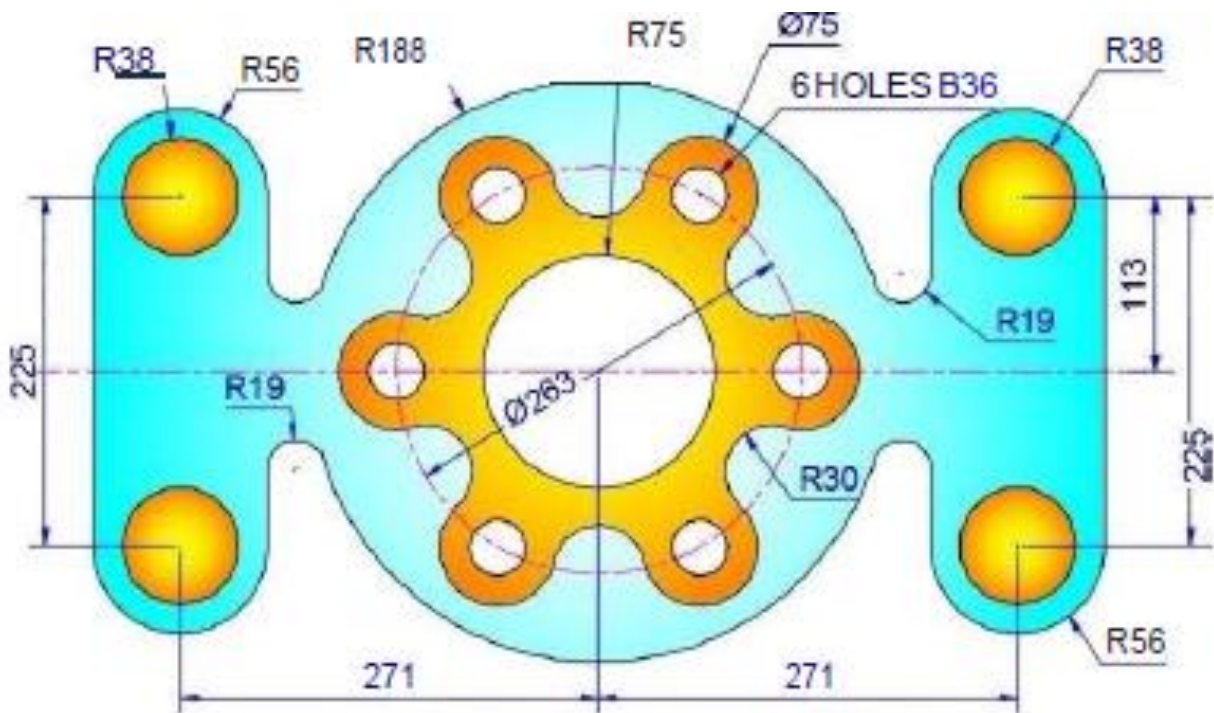
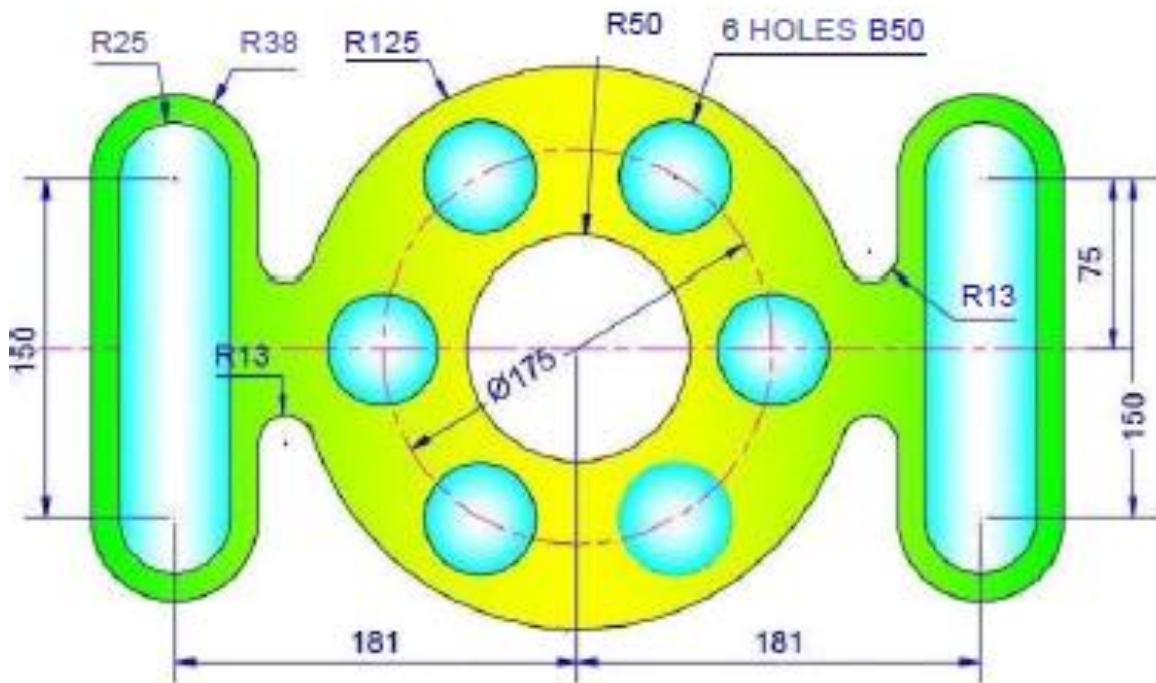


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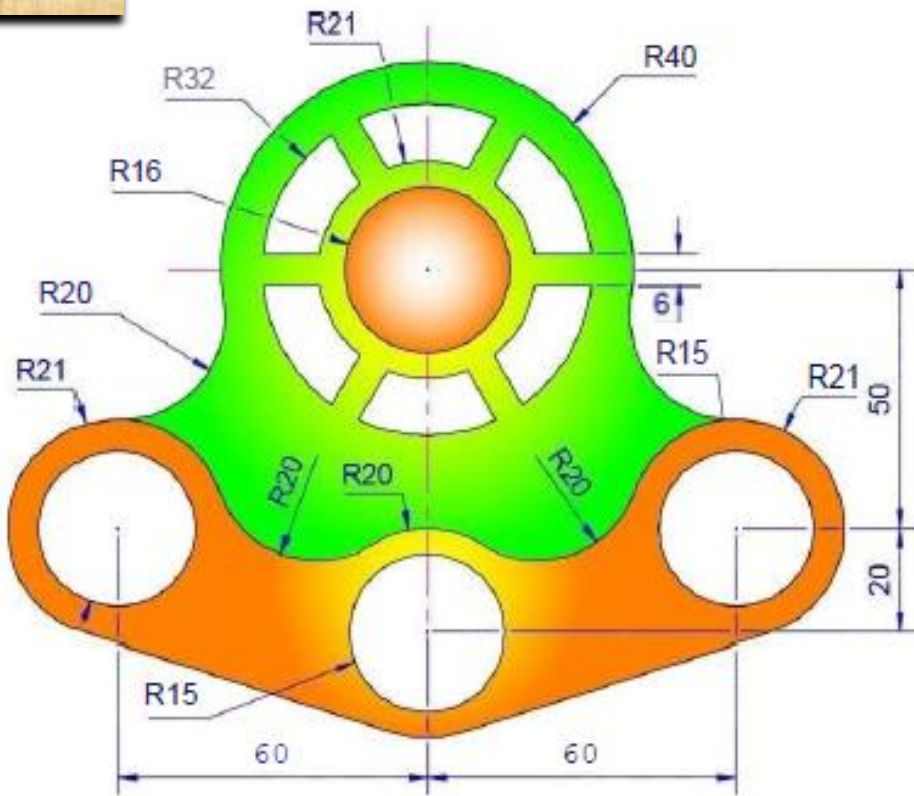
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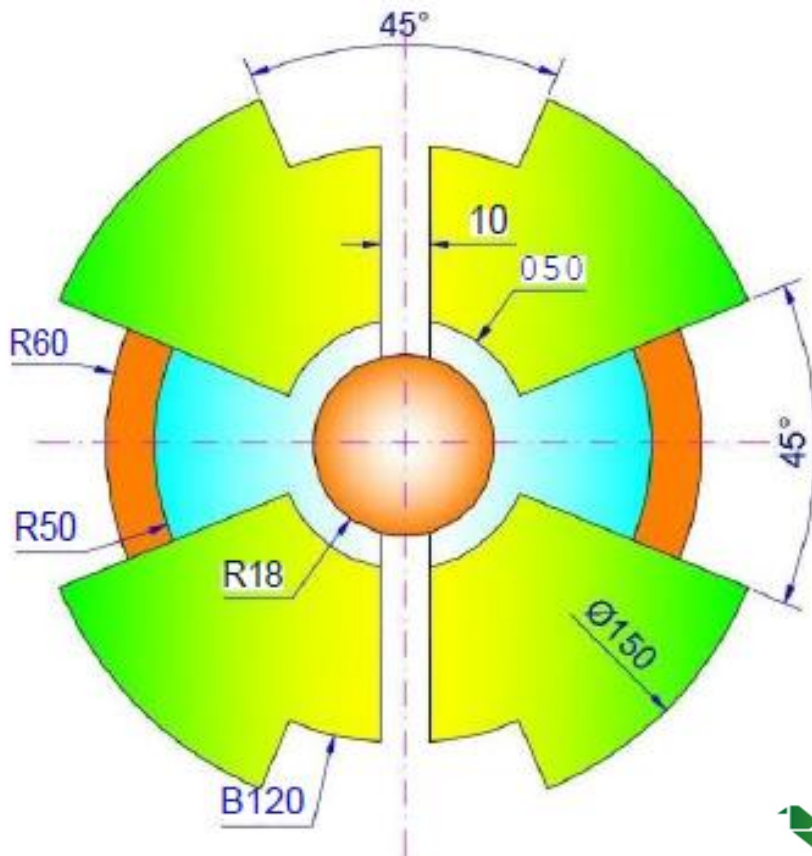
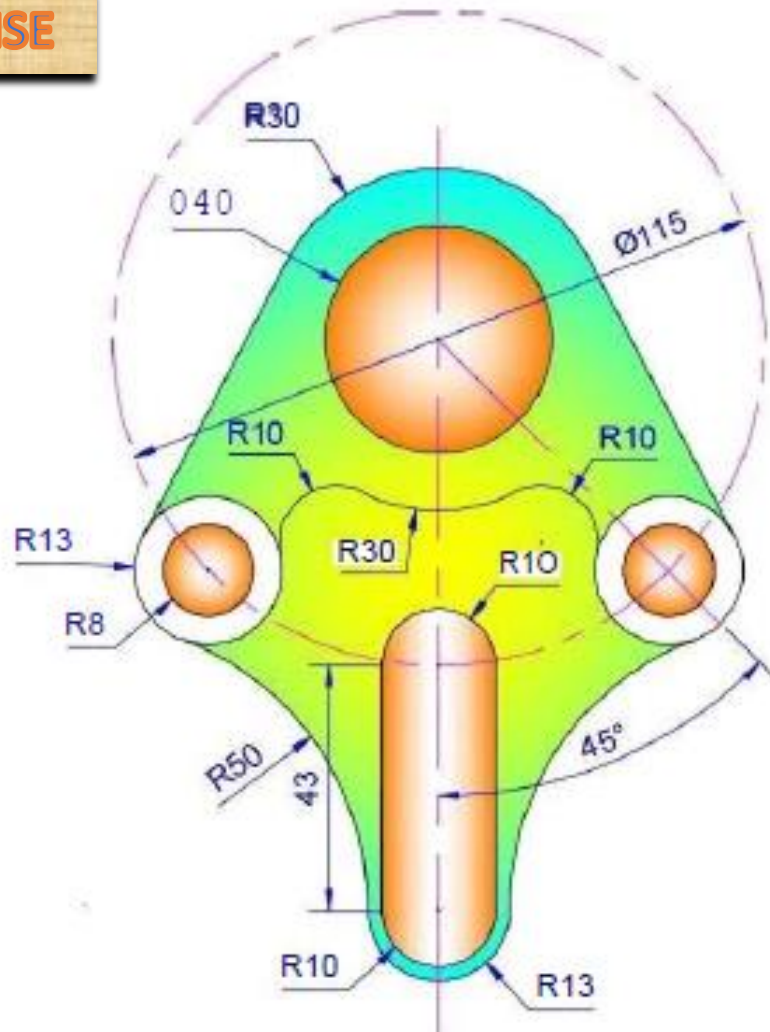


2D EXERCISE

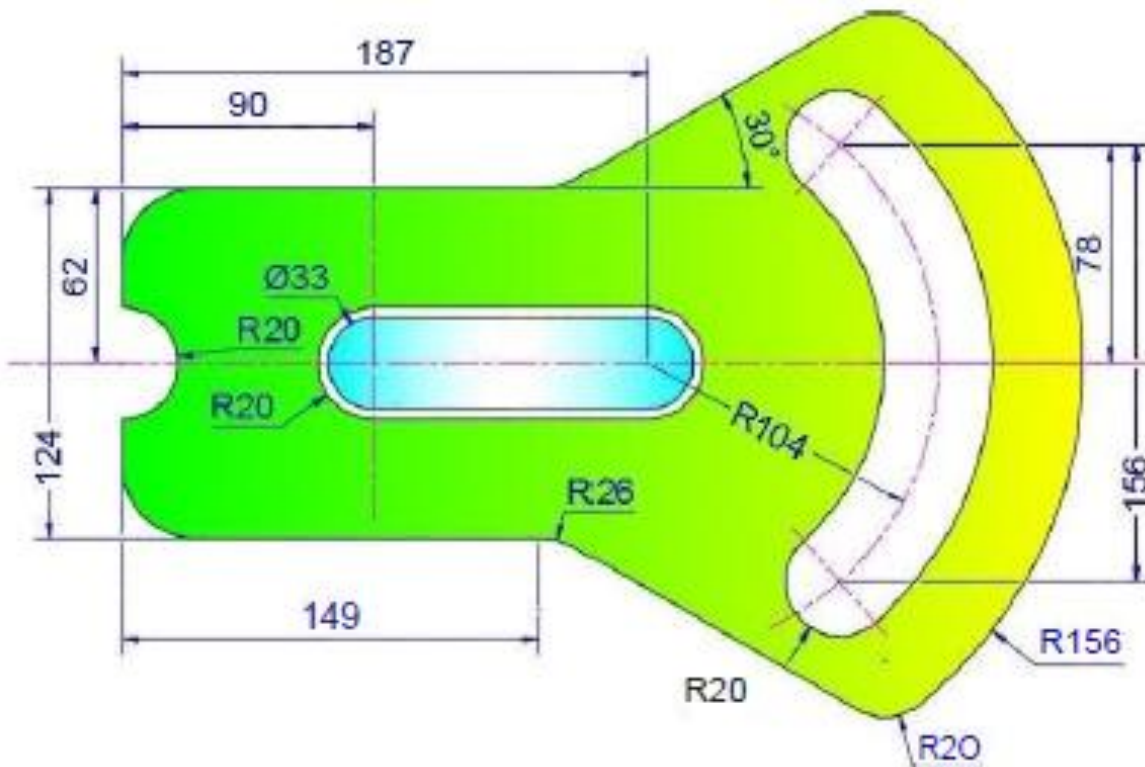
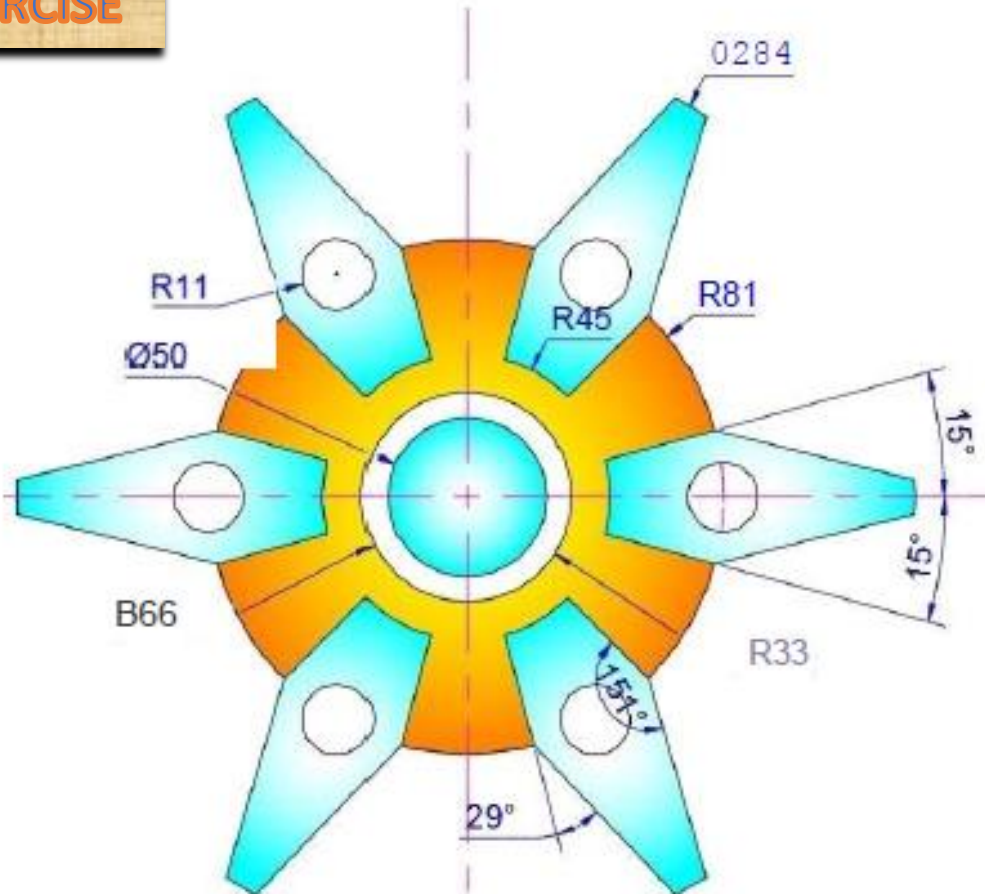
2D EXERCISE



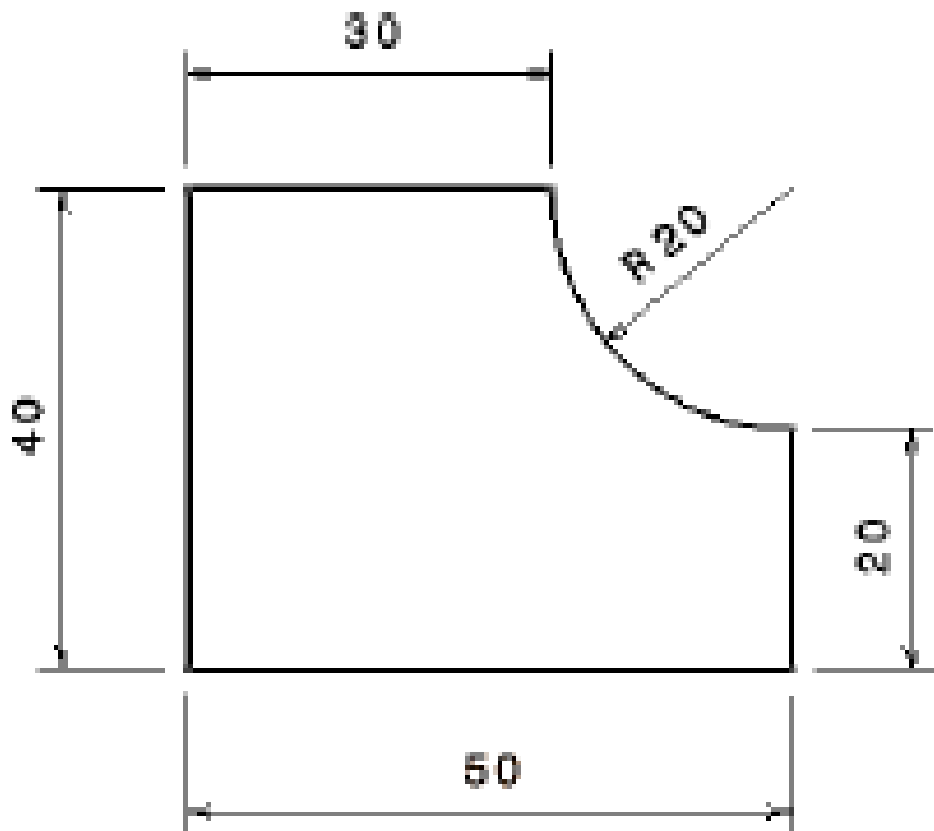
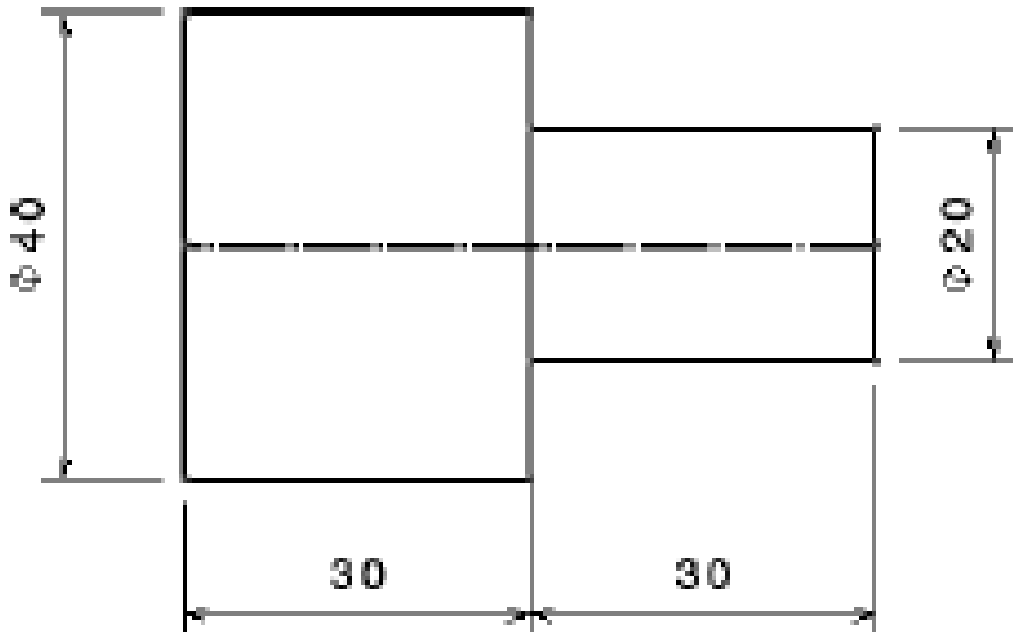
2D EXERCISE



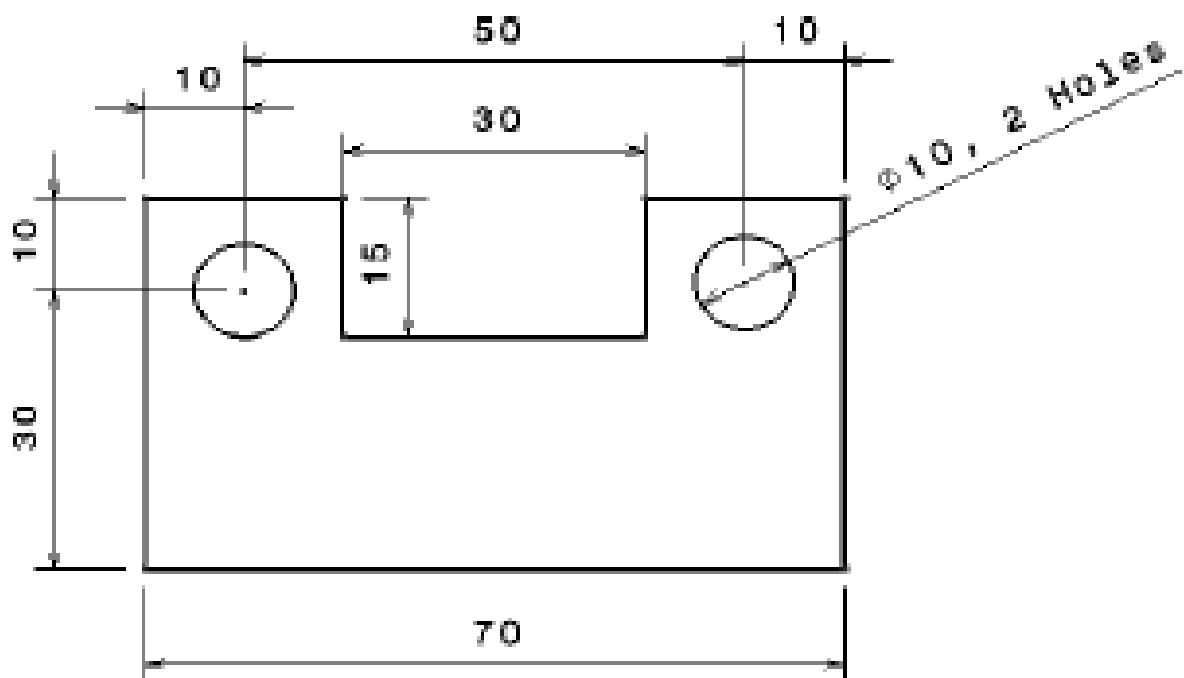
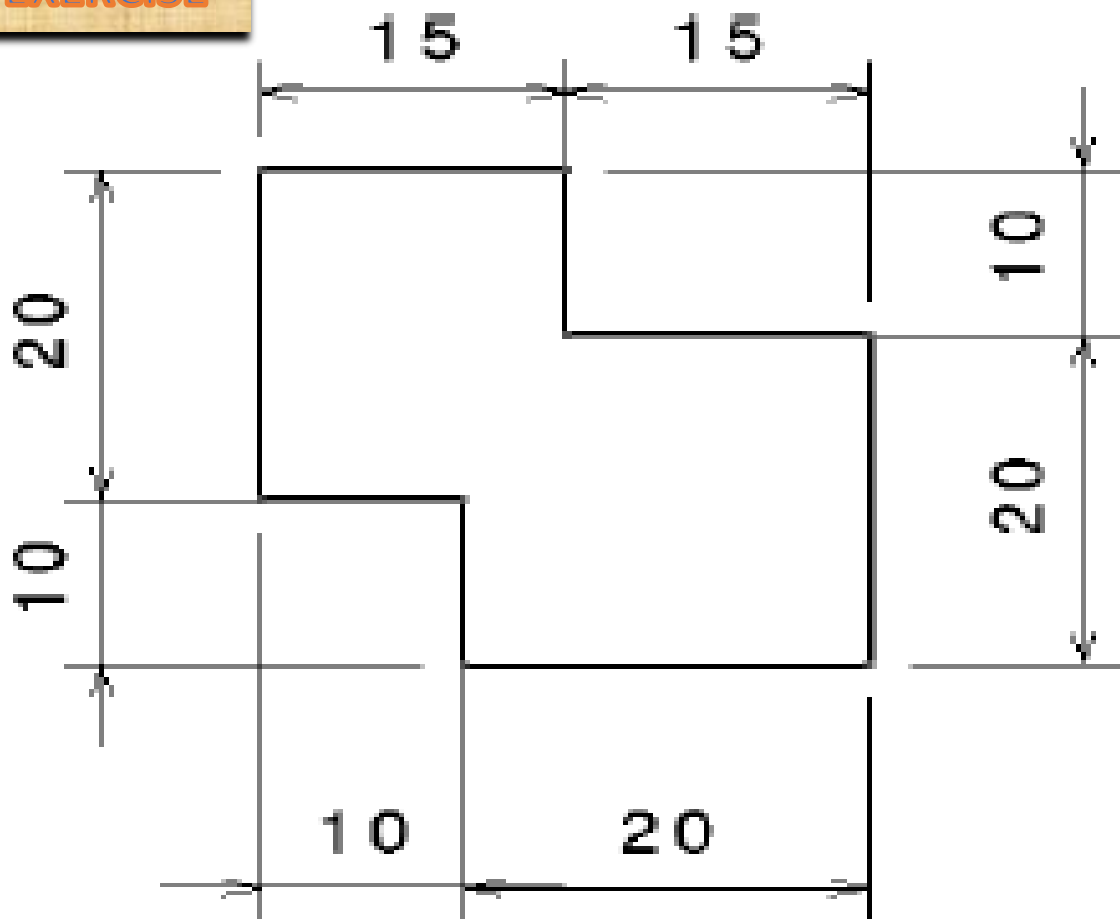
2D EXERCISE



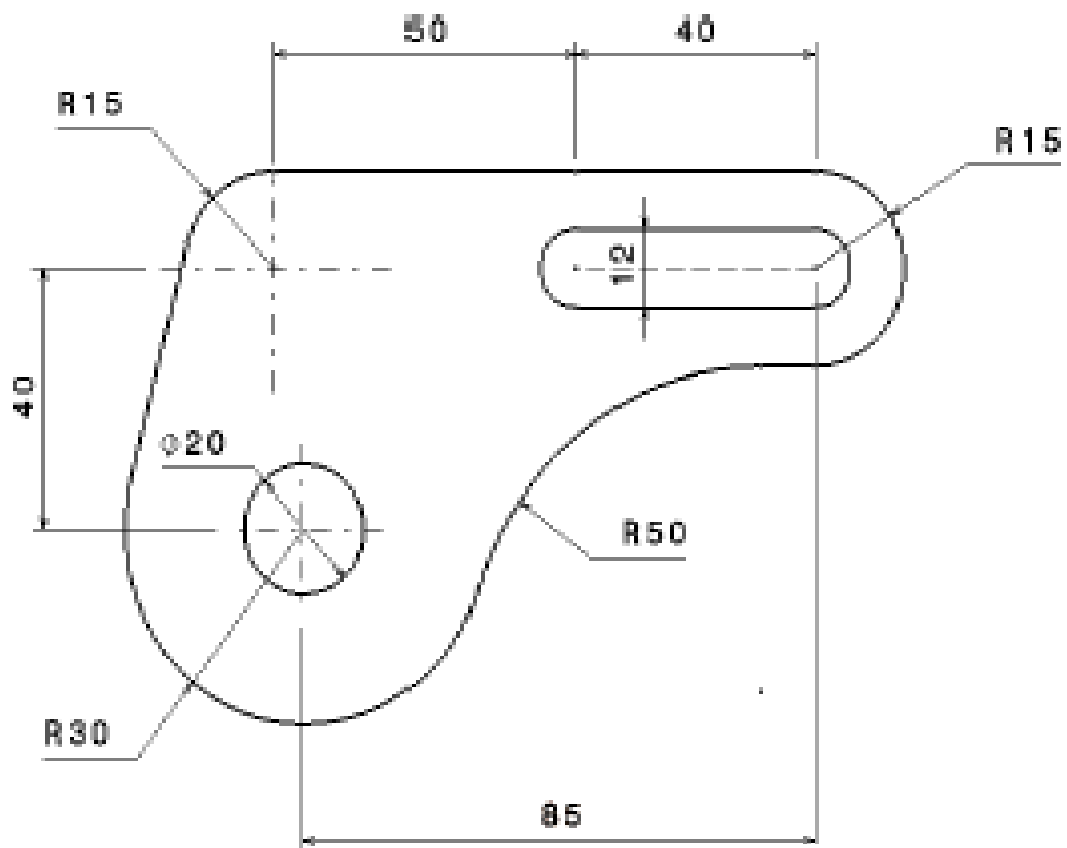
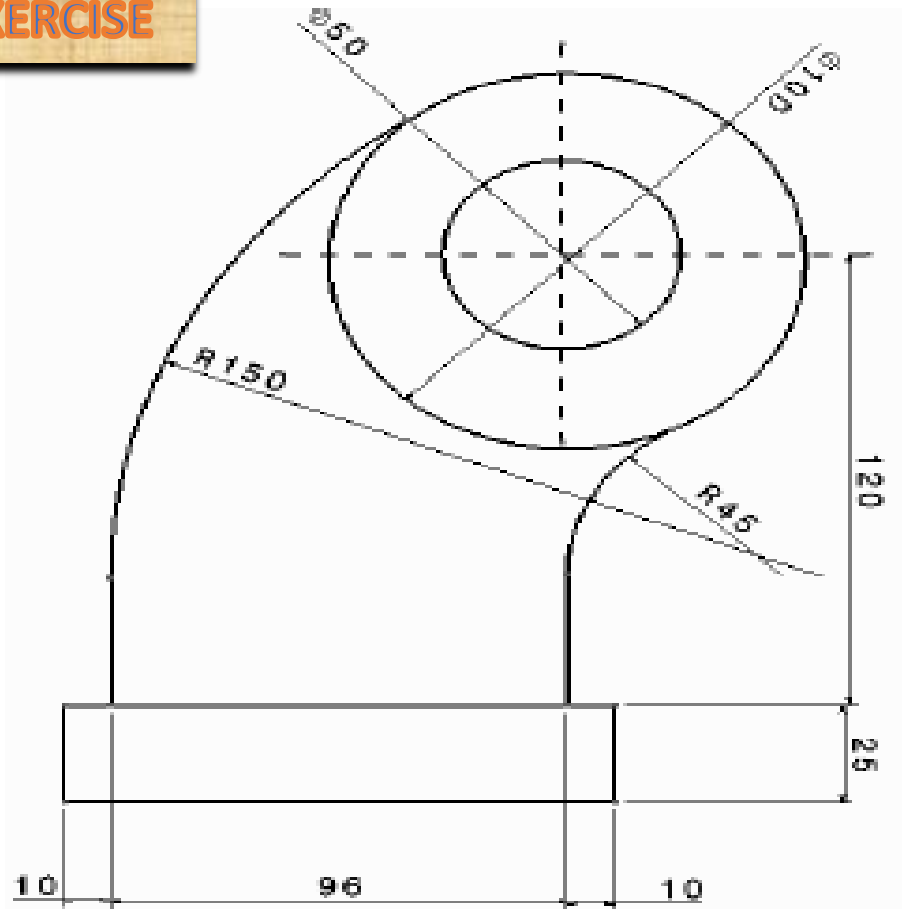
2D EXERCISE



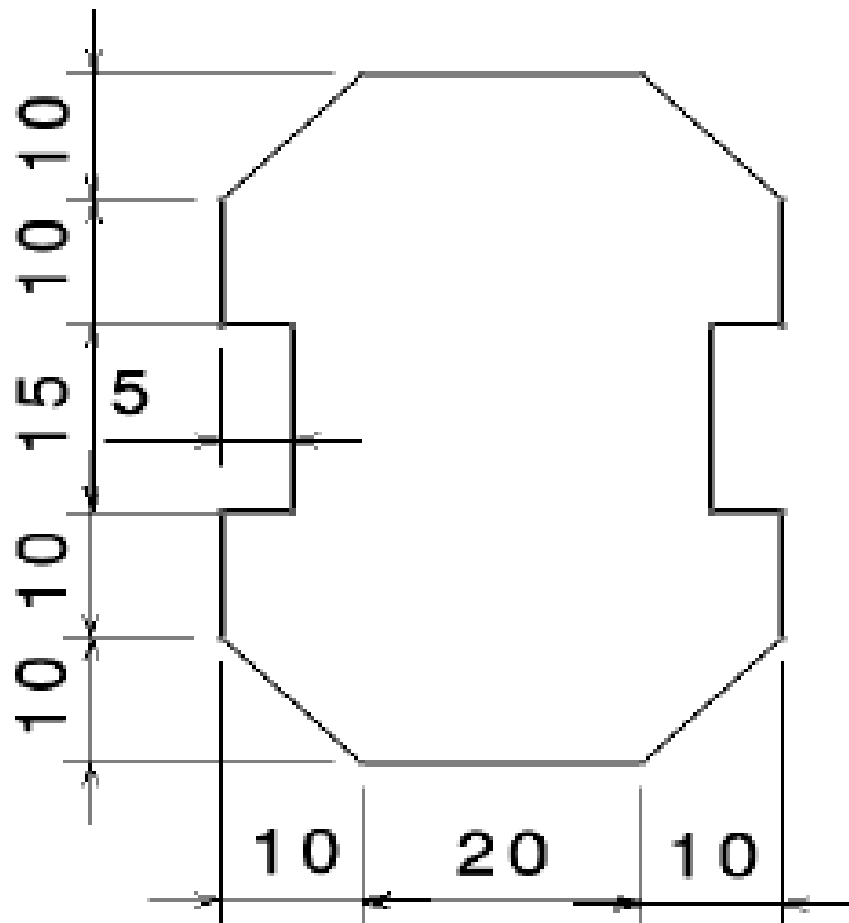
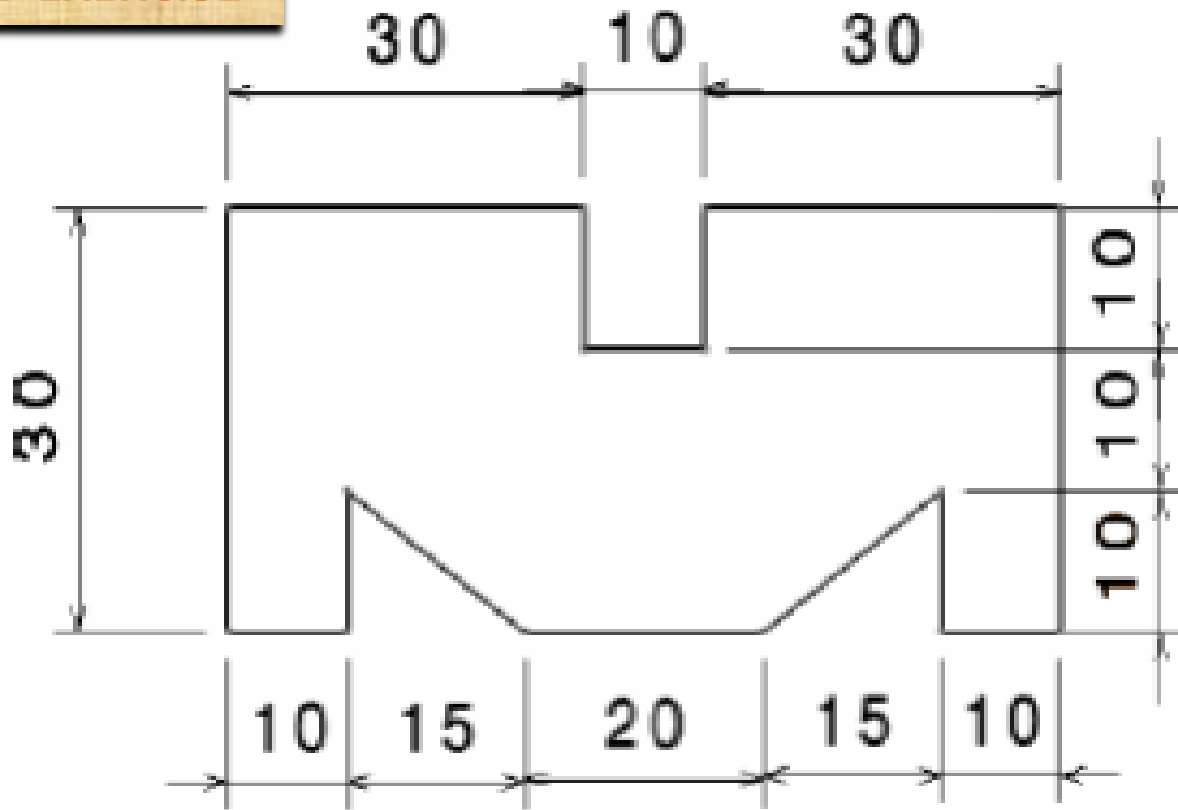
2D EXERCISE



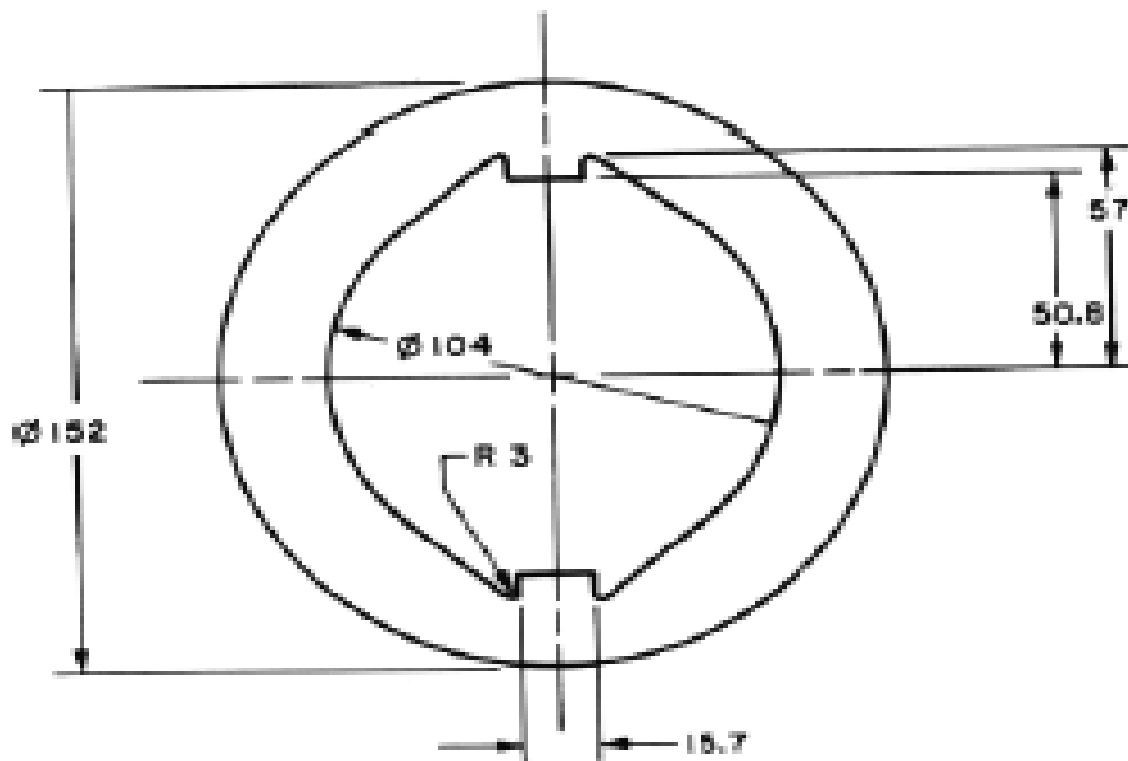
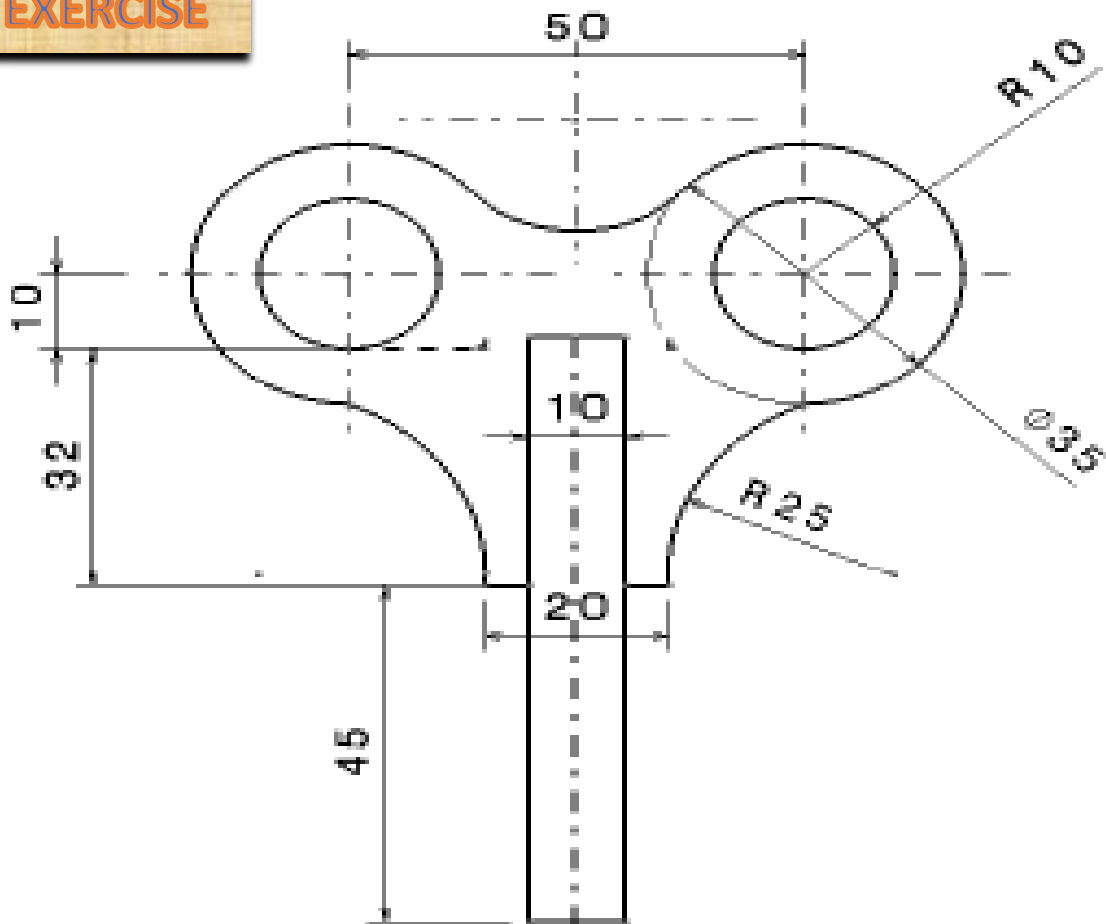
2D EXERCISE



2D EXERCISE

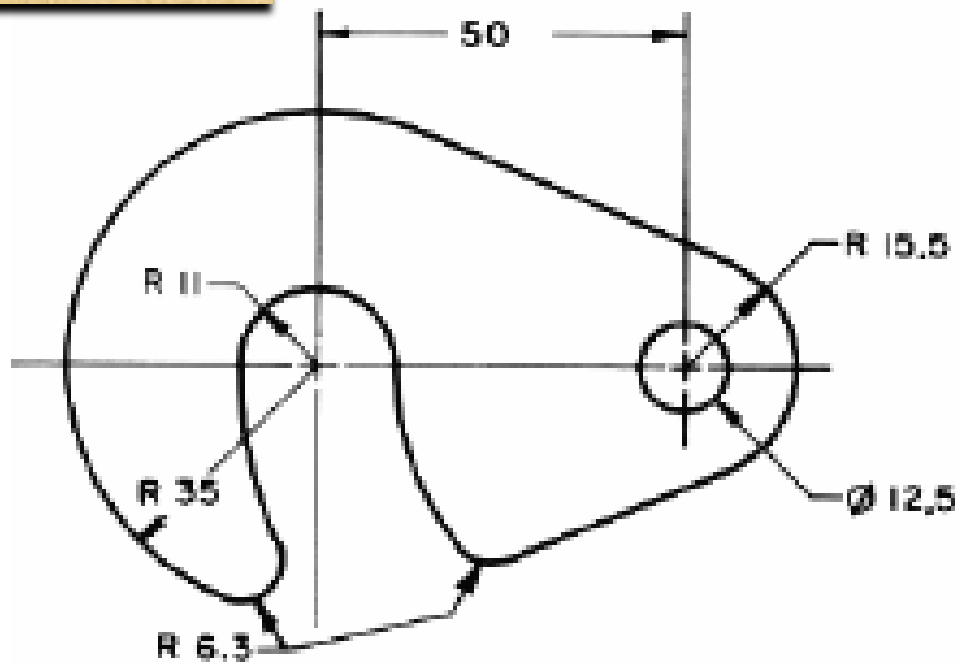


2D EXERCISE

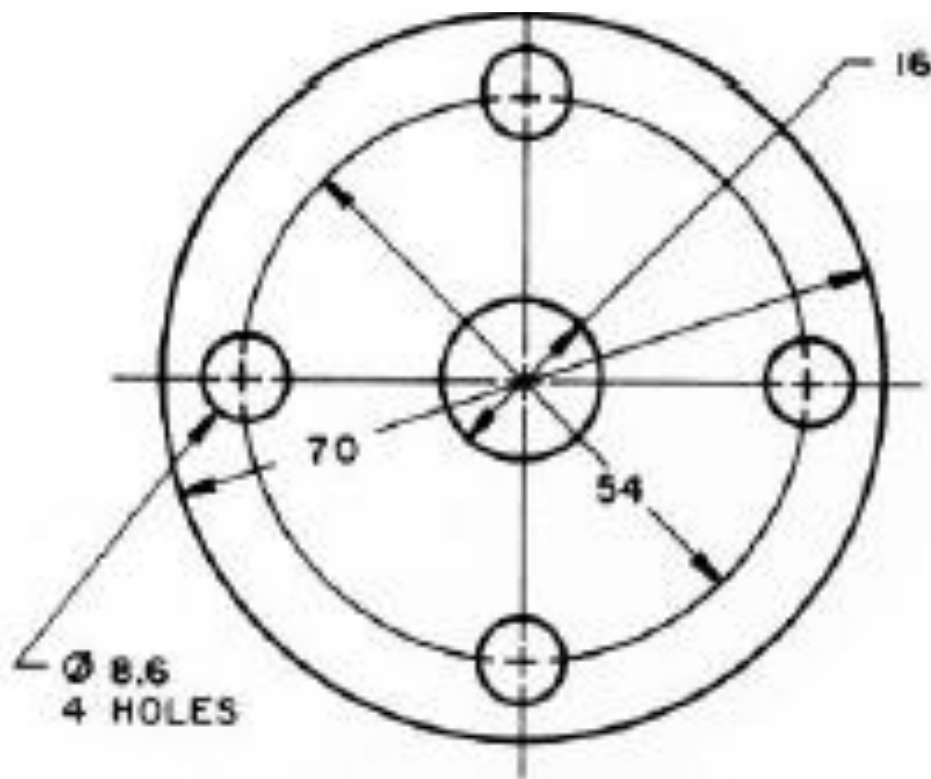


THRUST WASHER

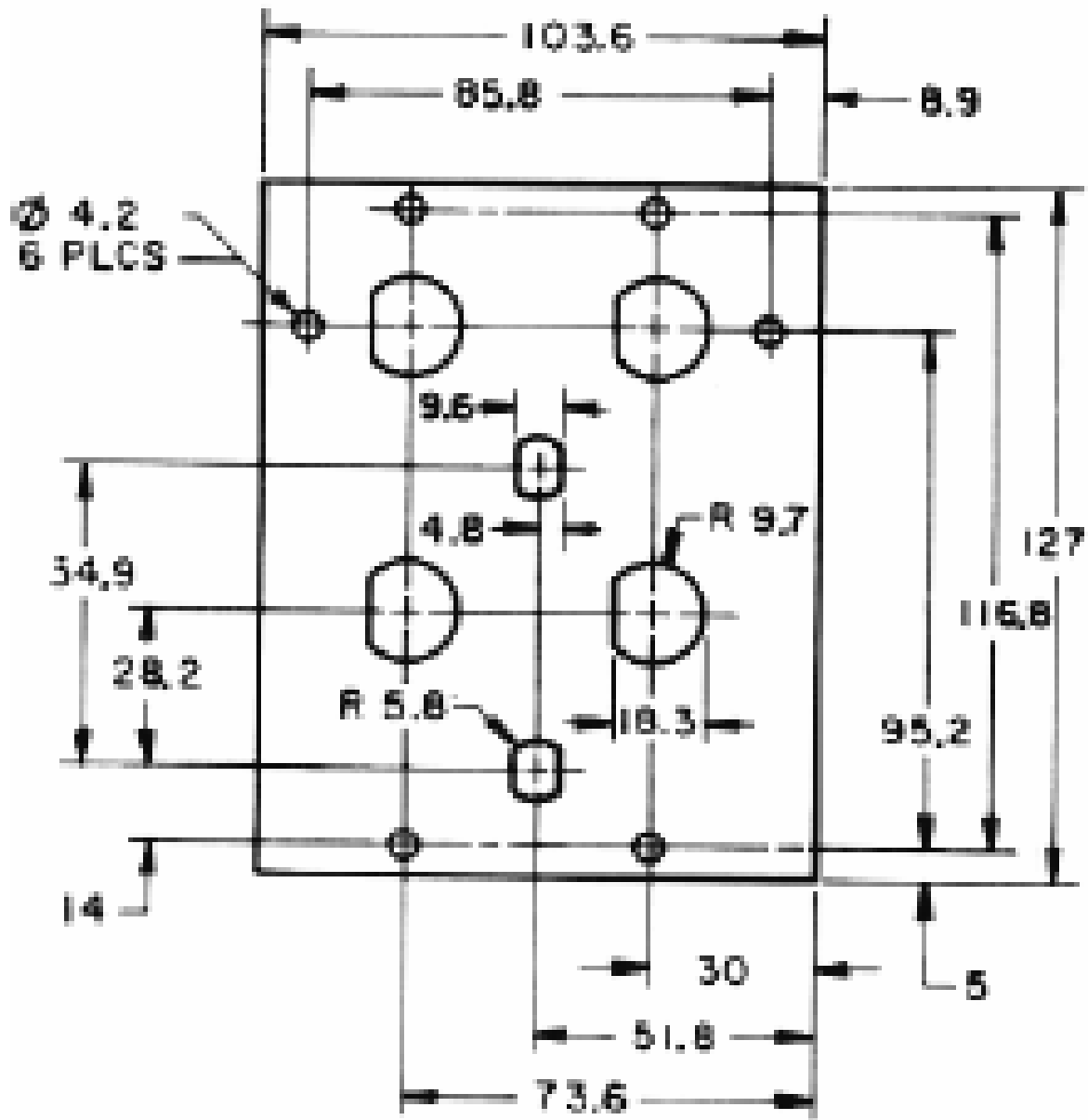
2D EXERCISE



SWING C - WASHER

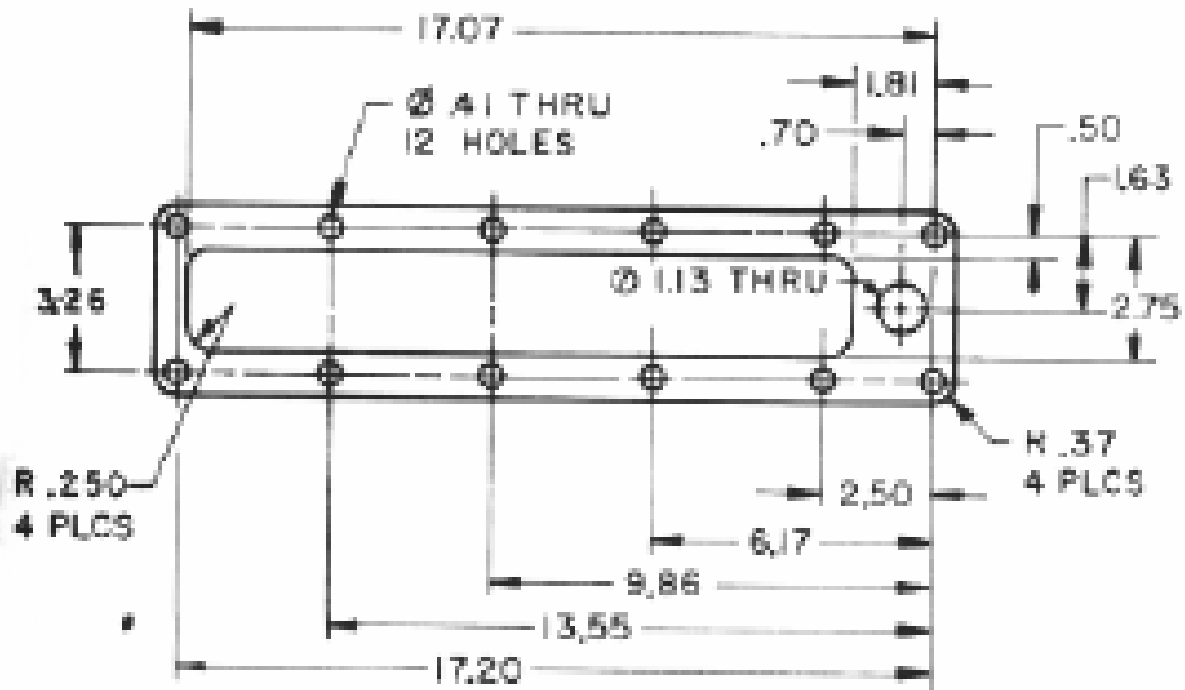
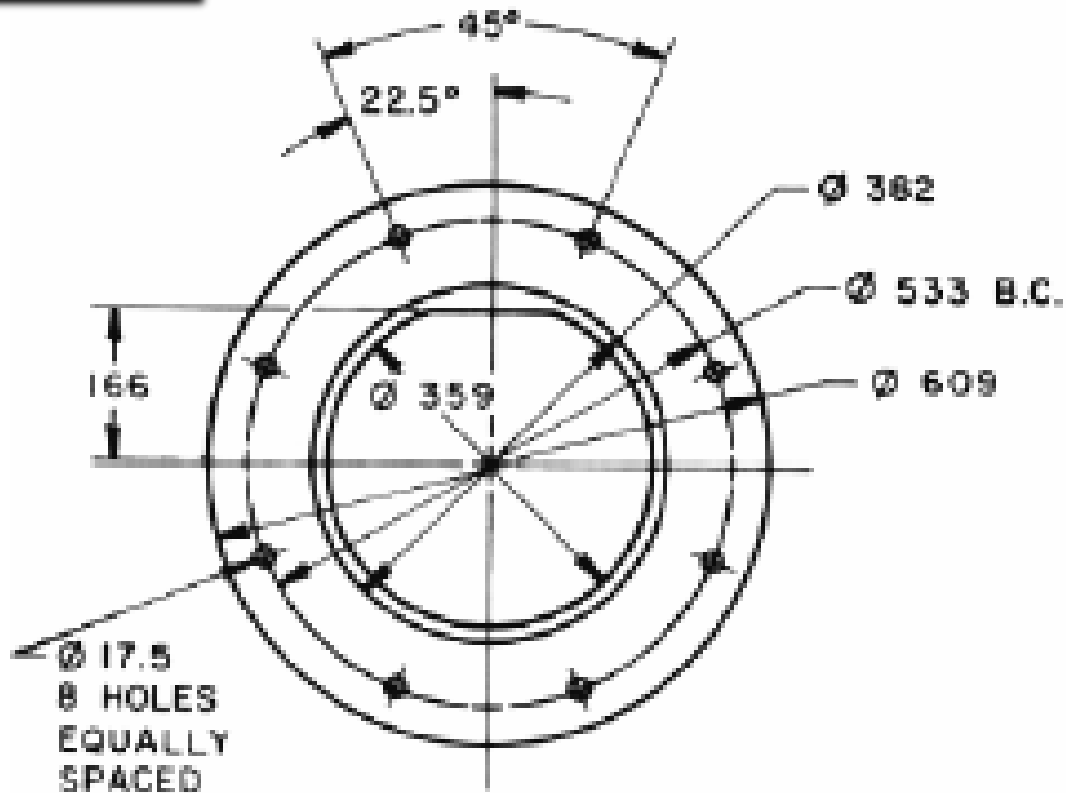


SPACER

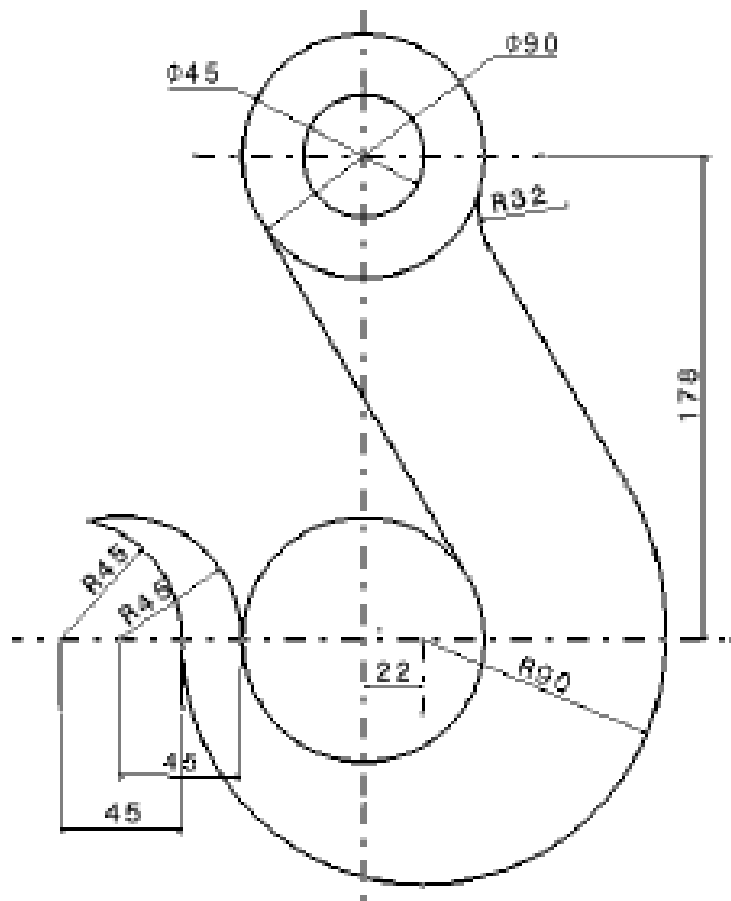
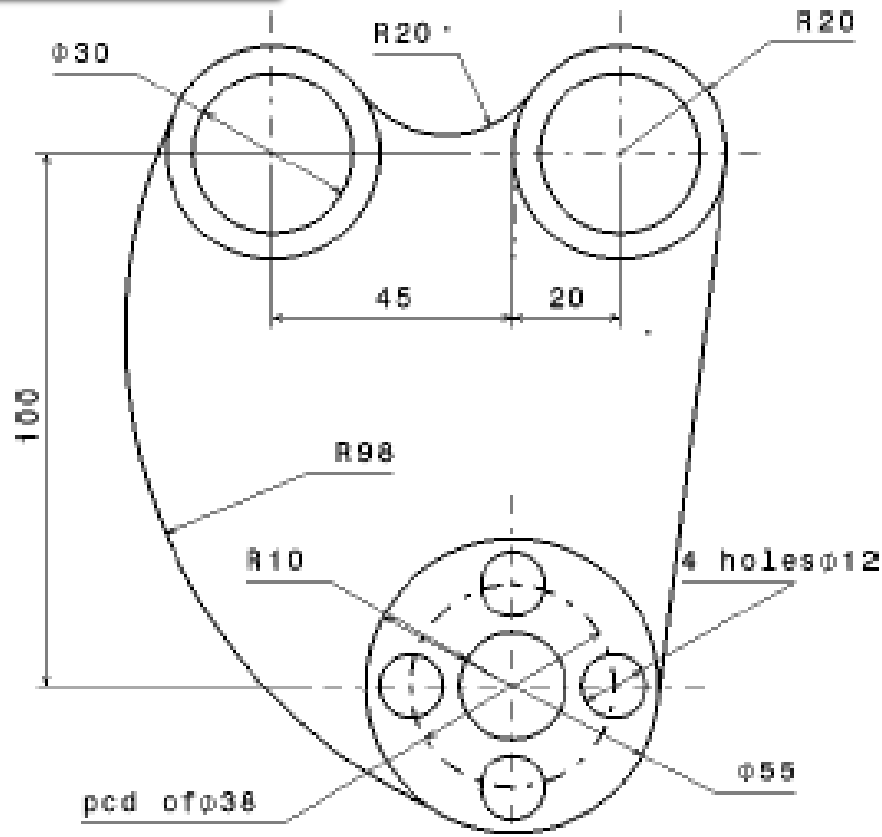


2D EXERCISE

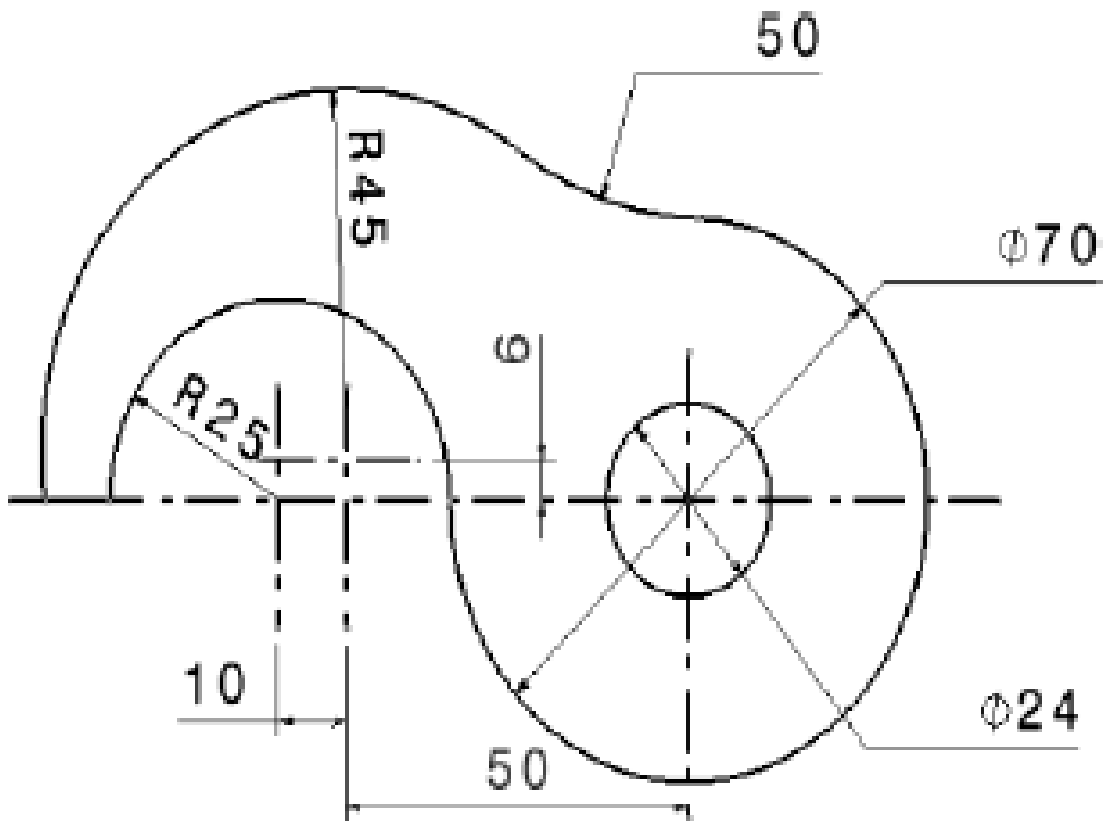
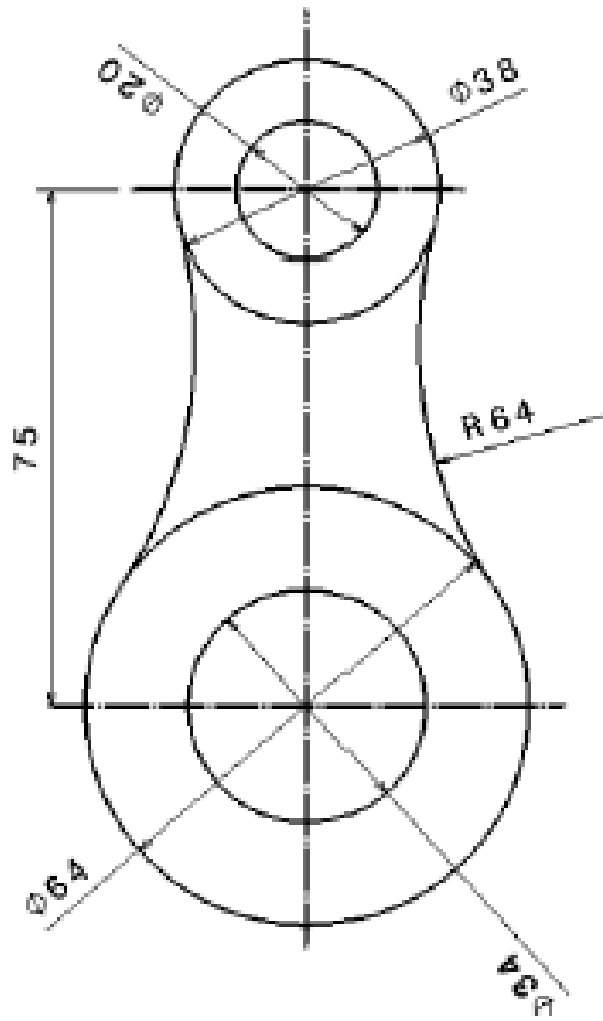
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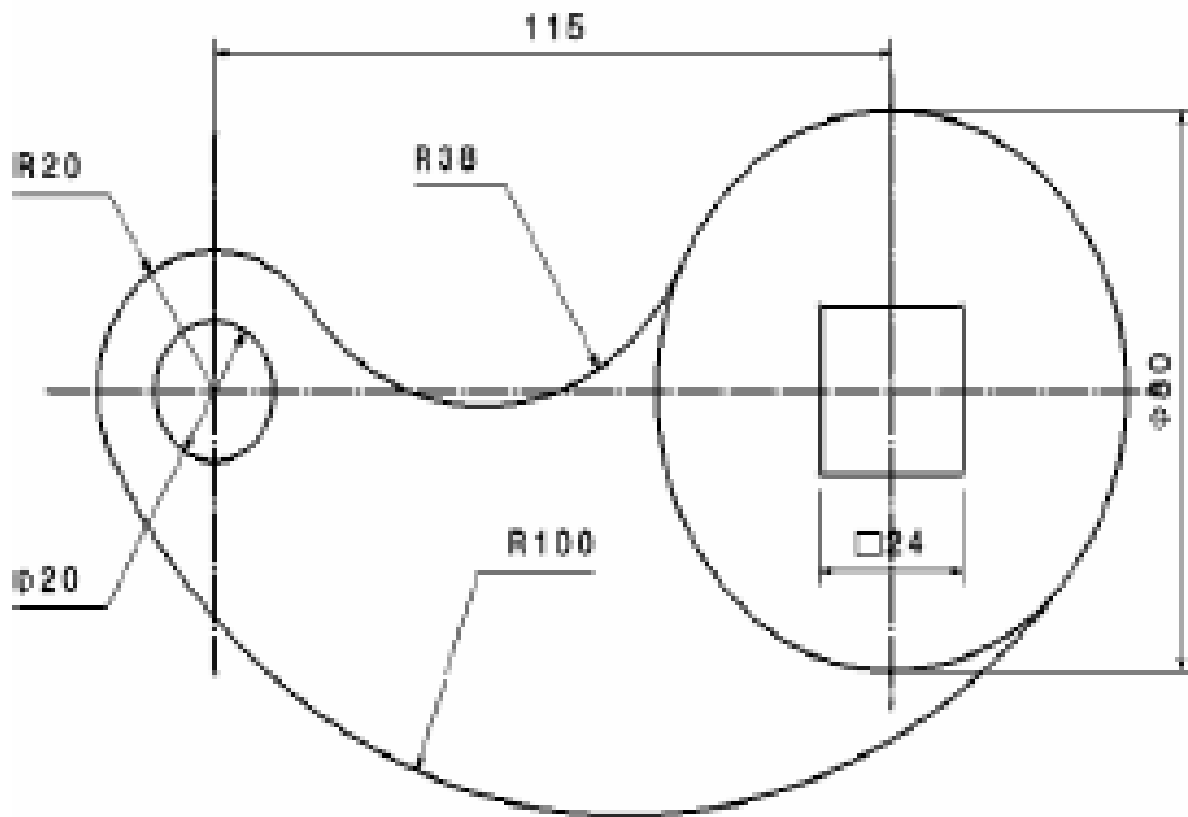
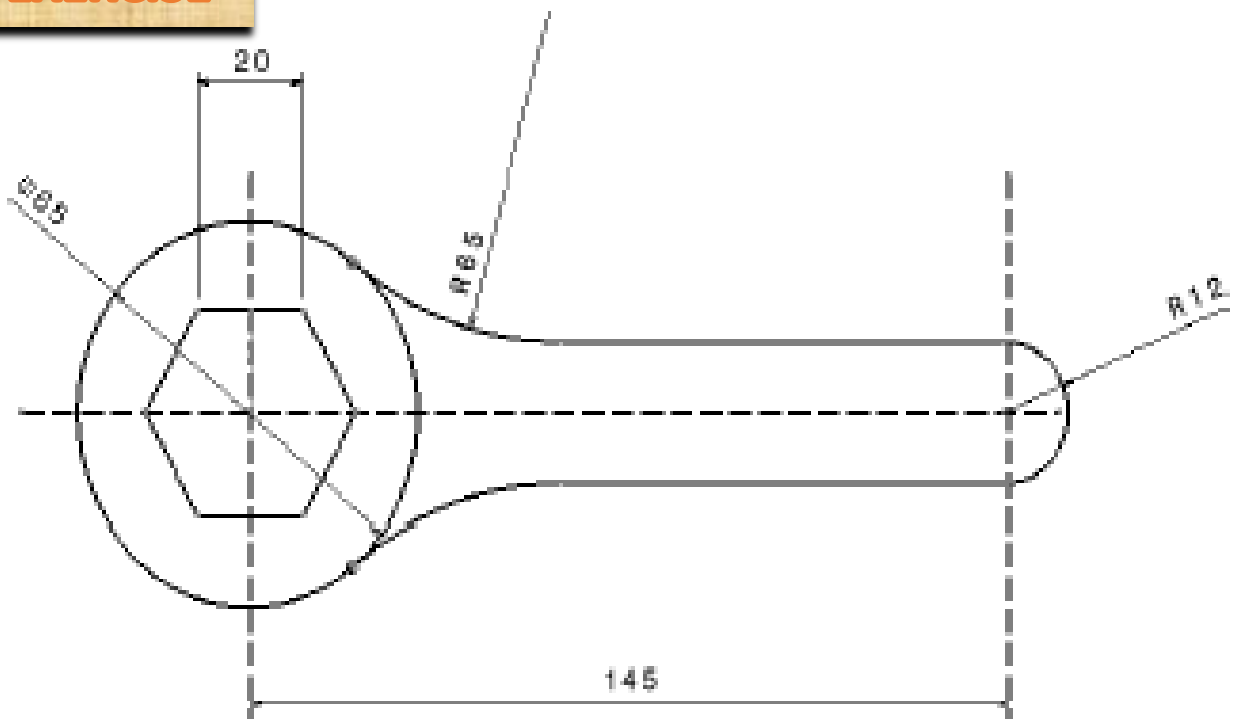
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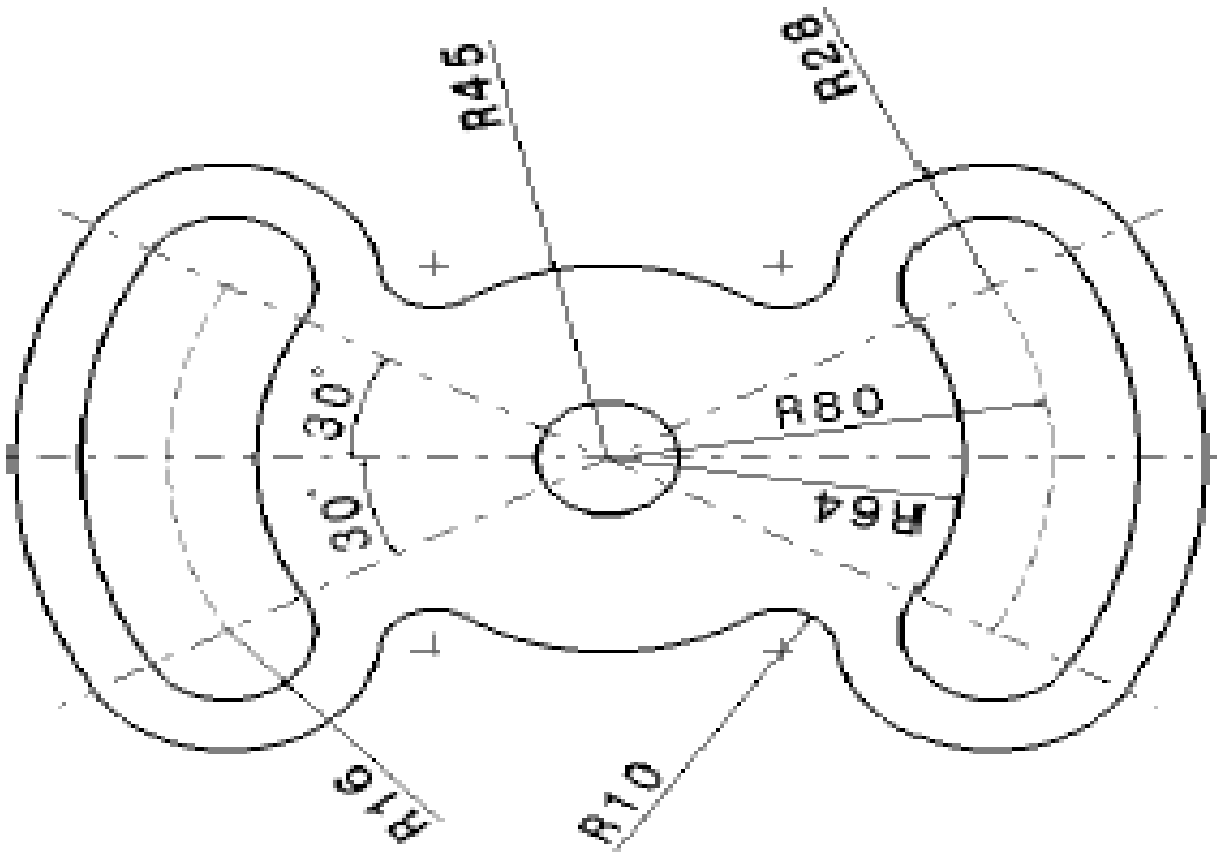
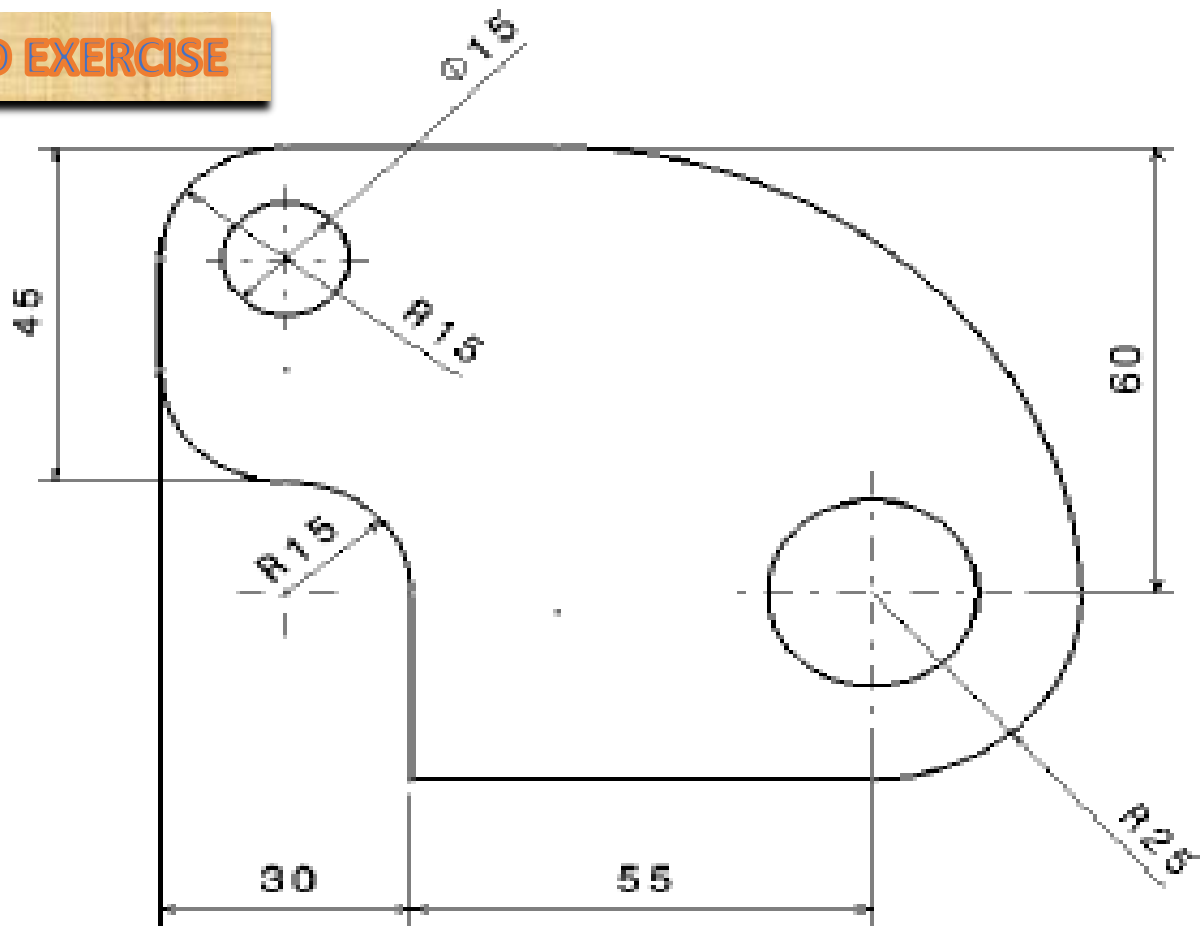
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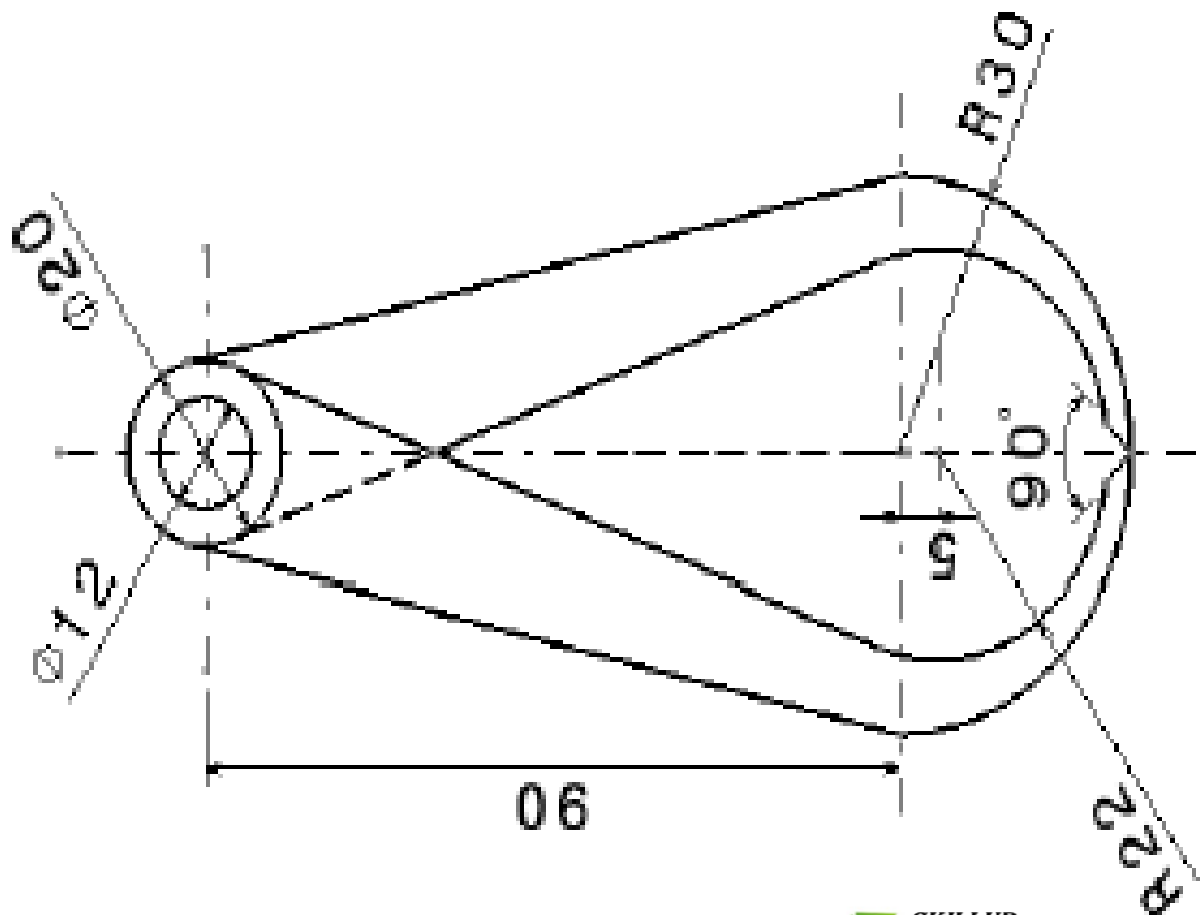
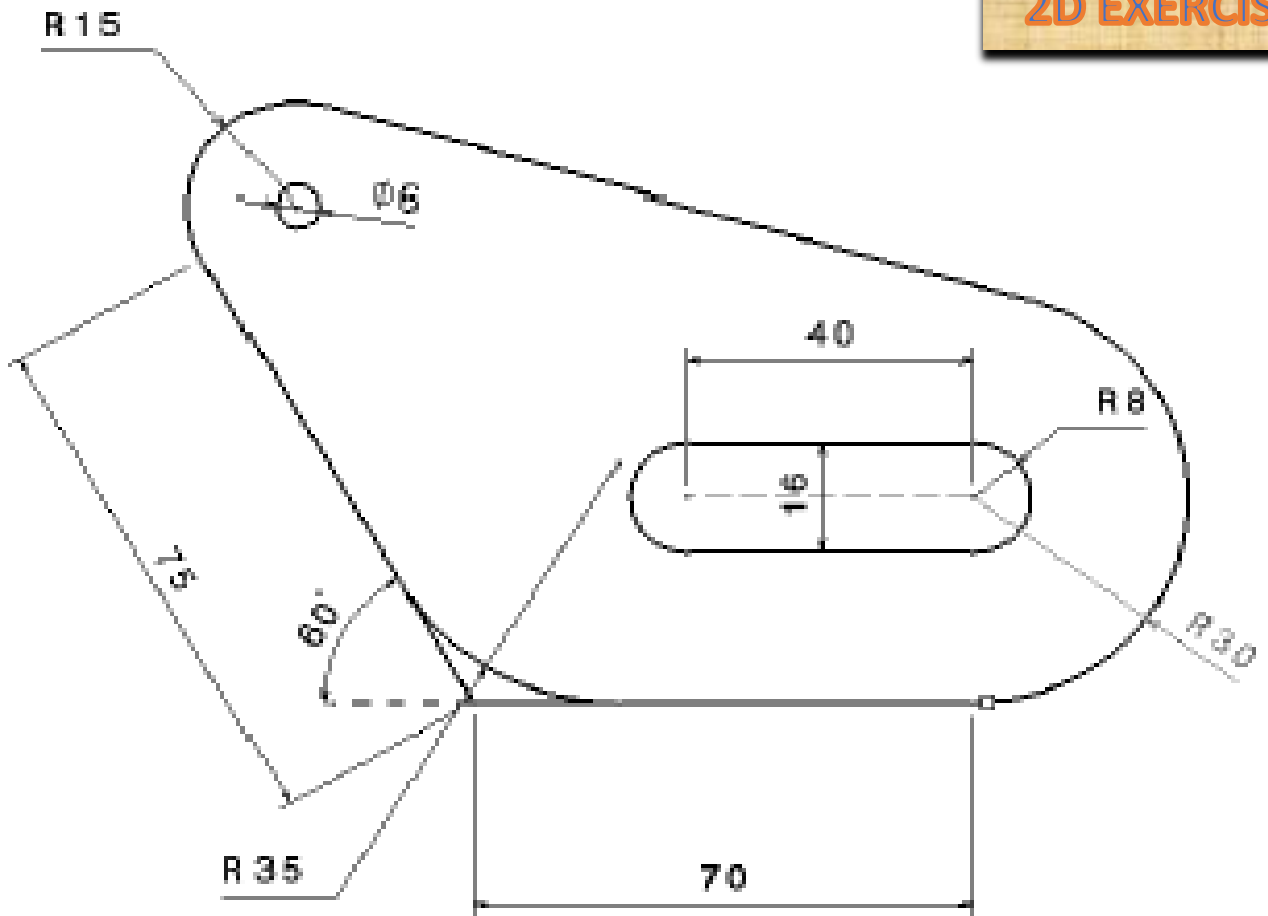
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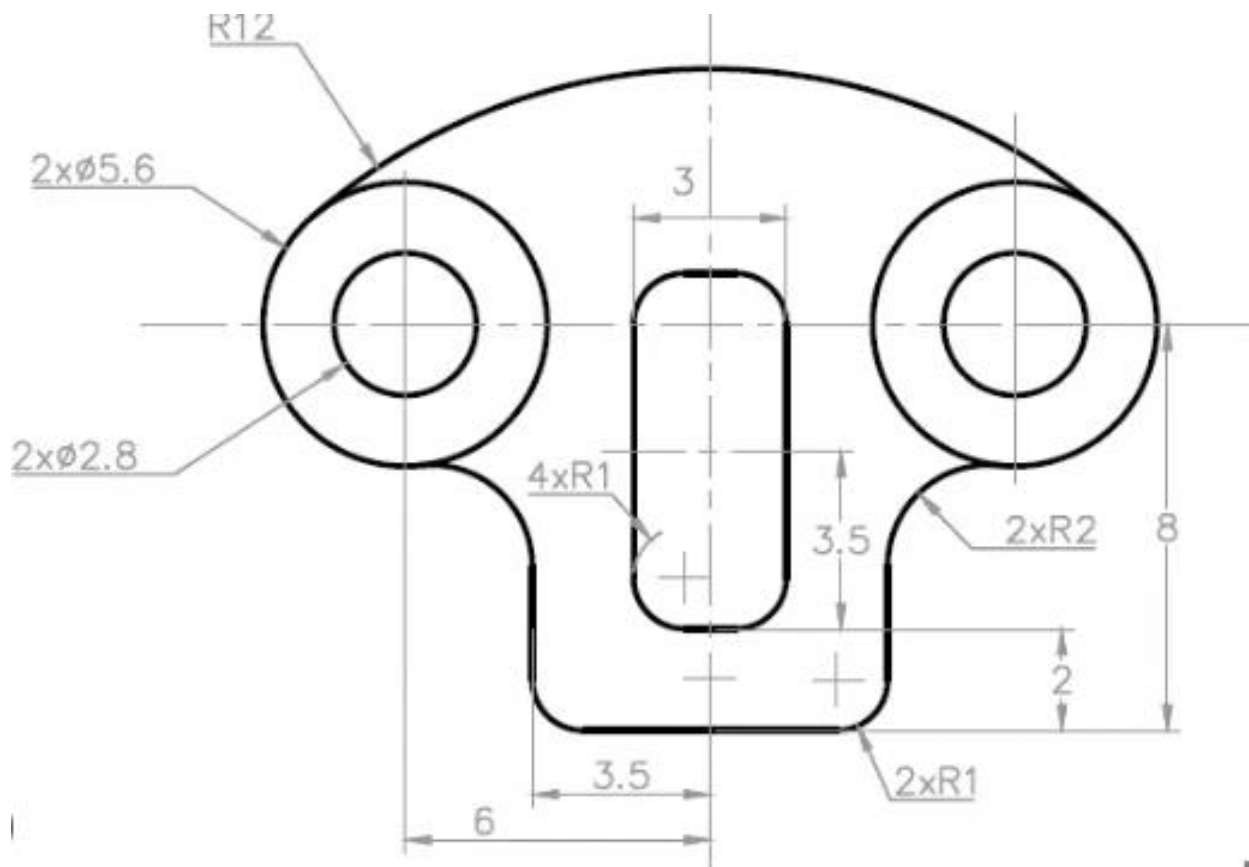
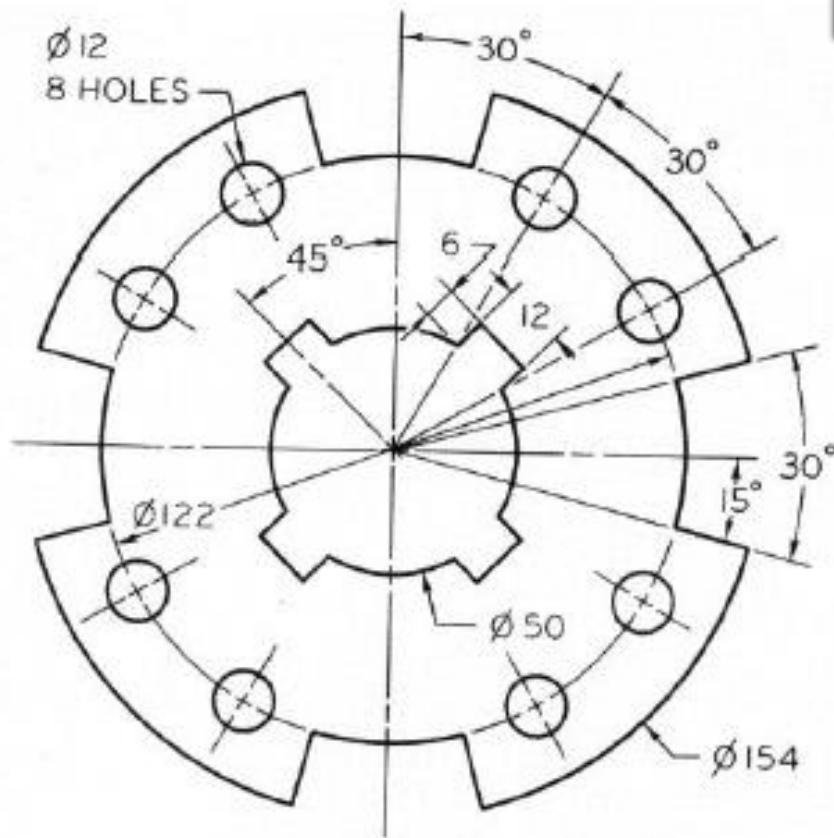
2D EXERCISE



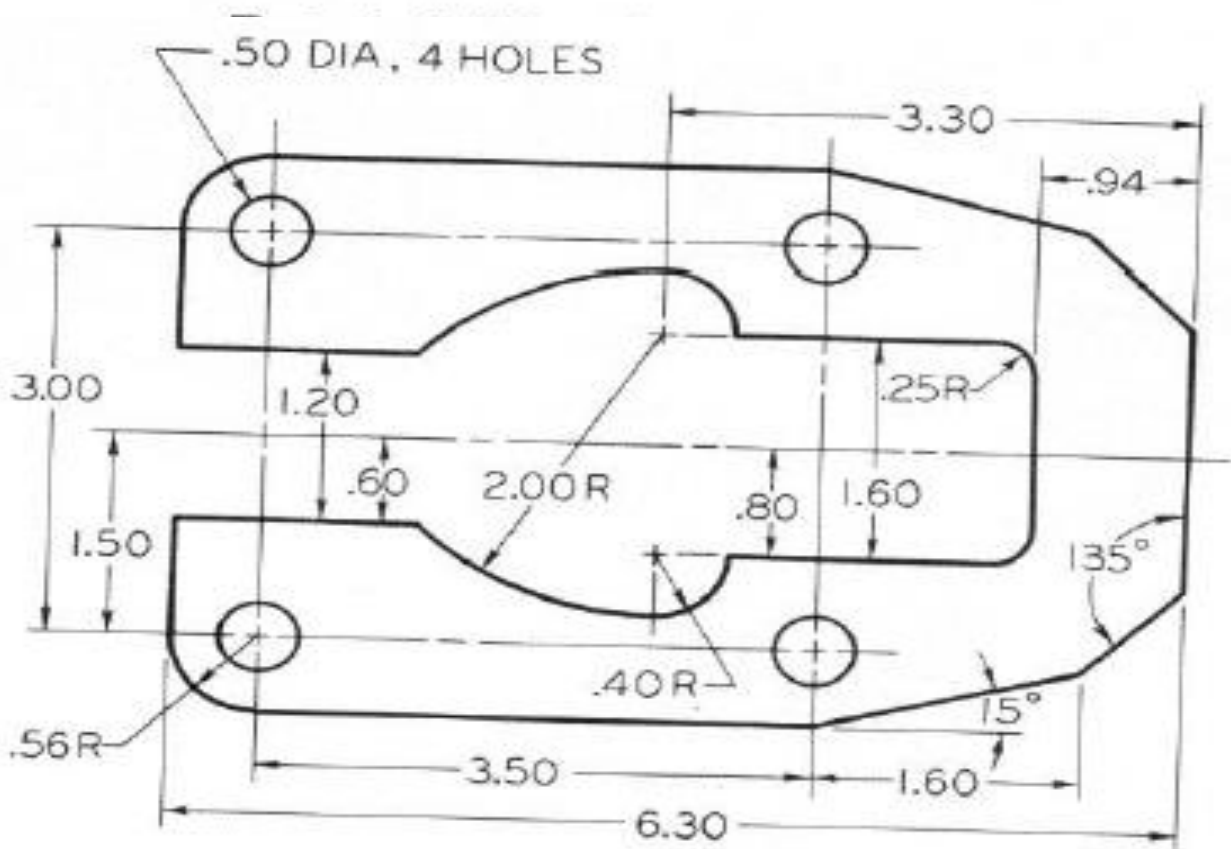
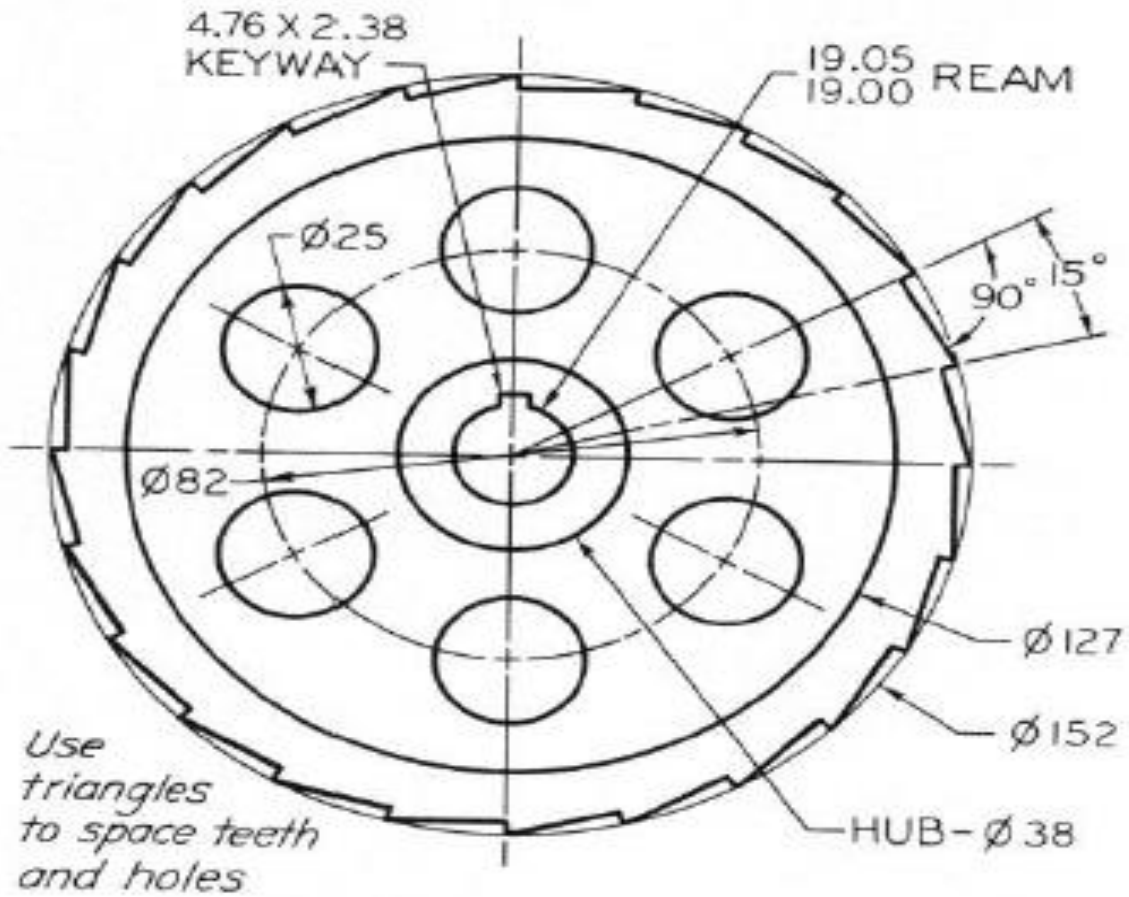
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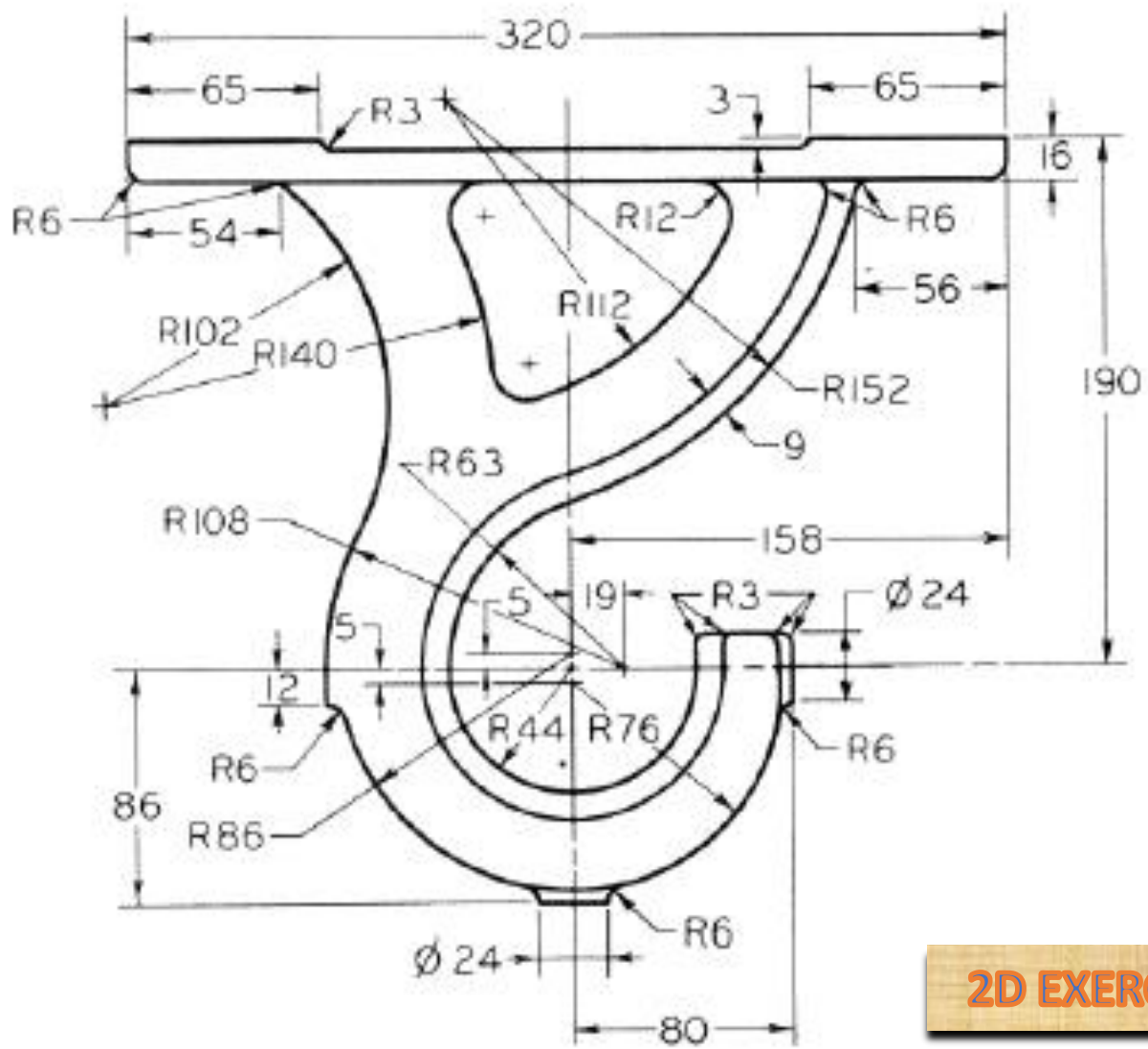


2D EXERCISE

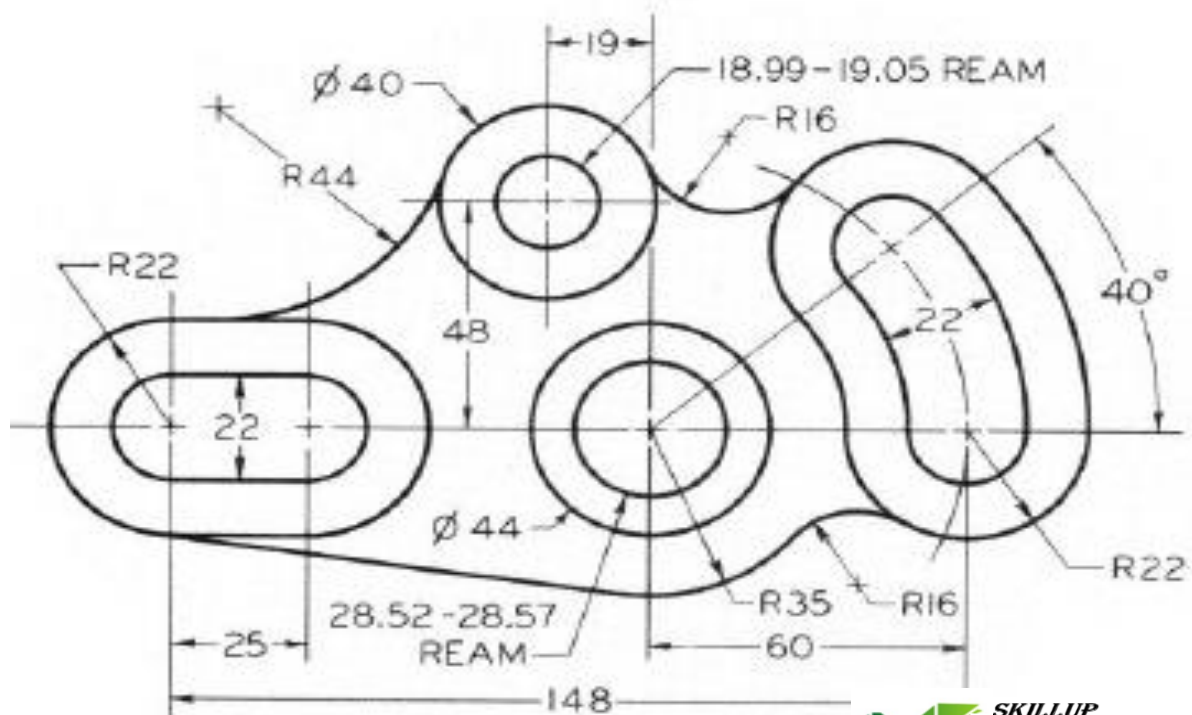


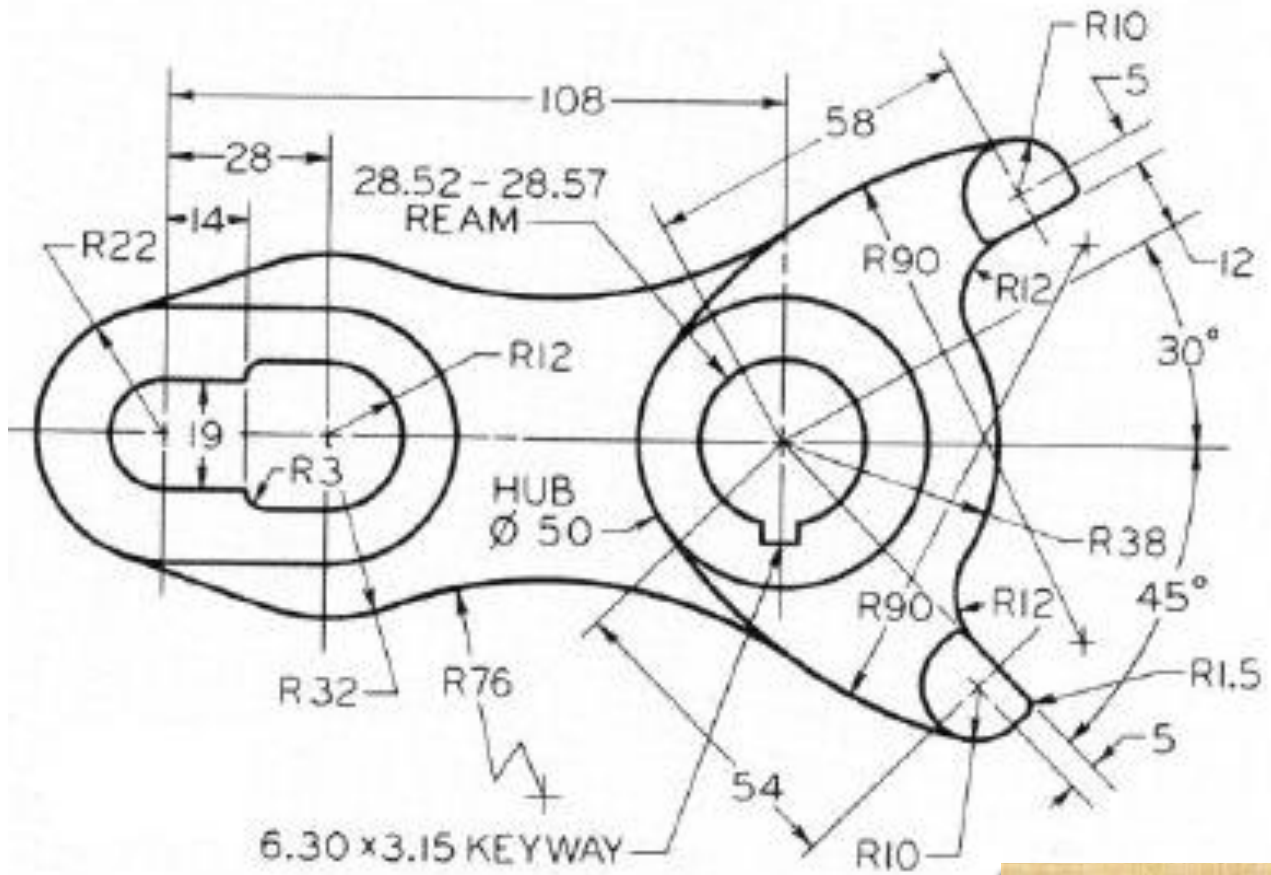
2D EXERCISE





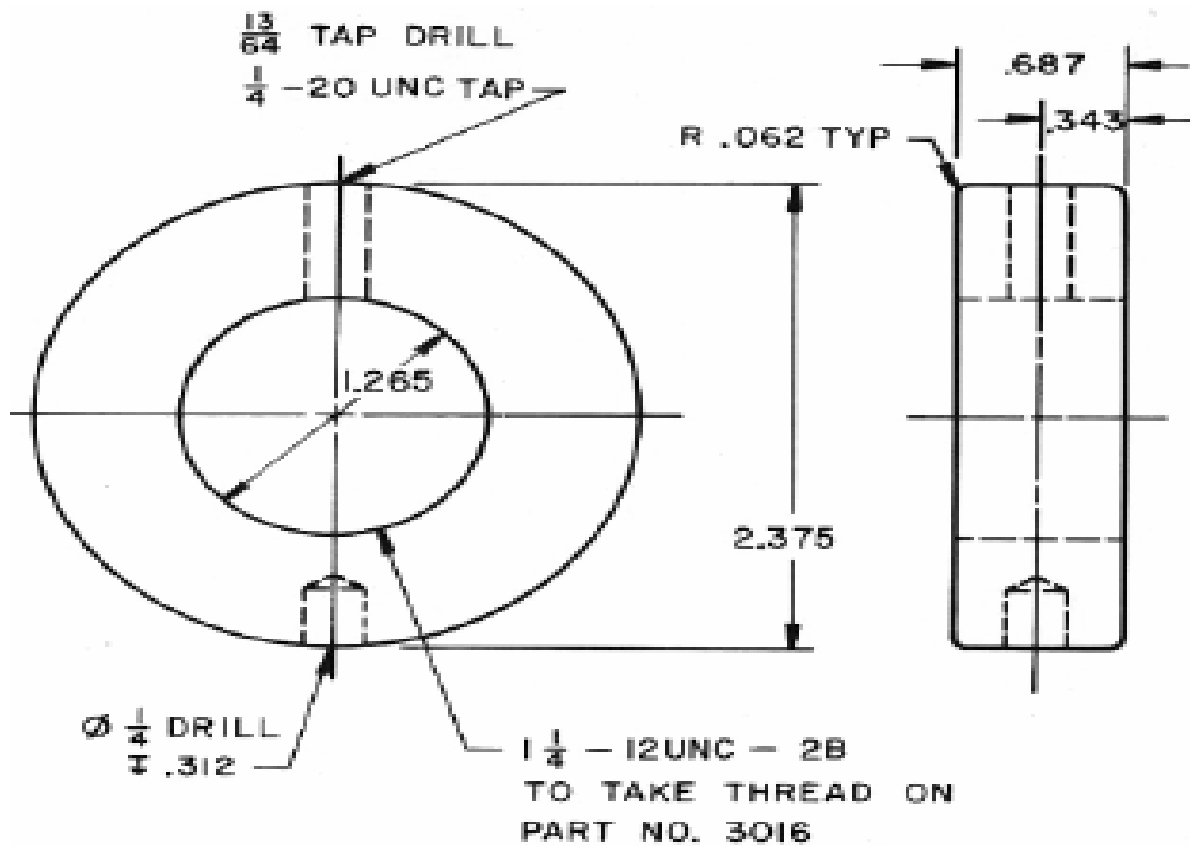
2D EXERCISE



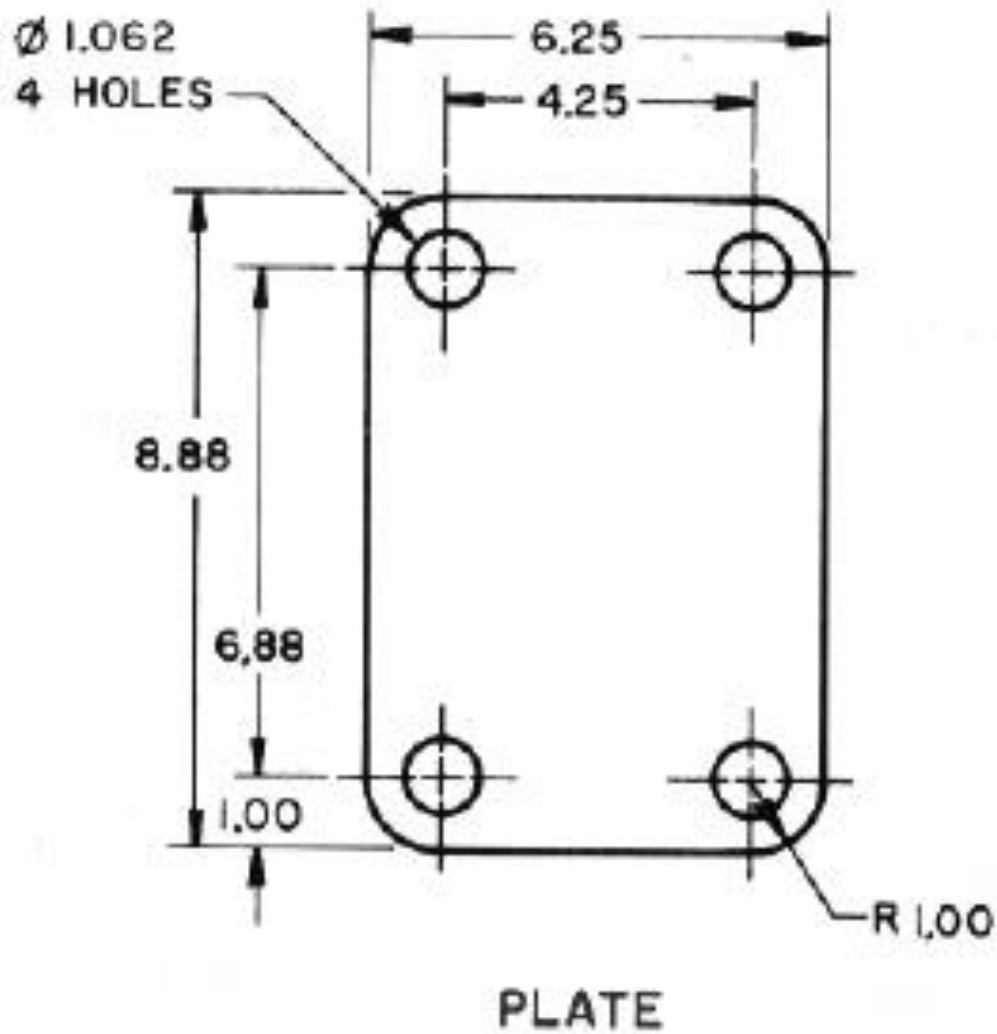
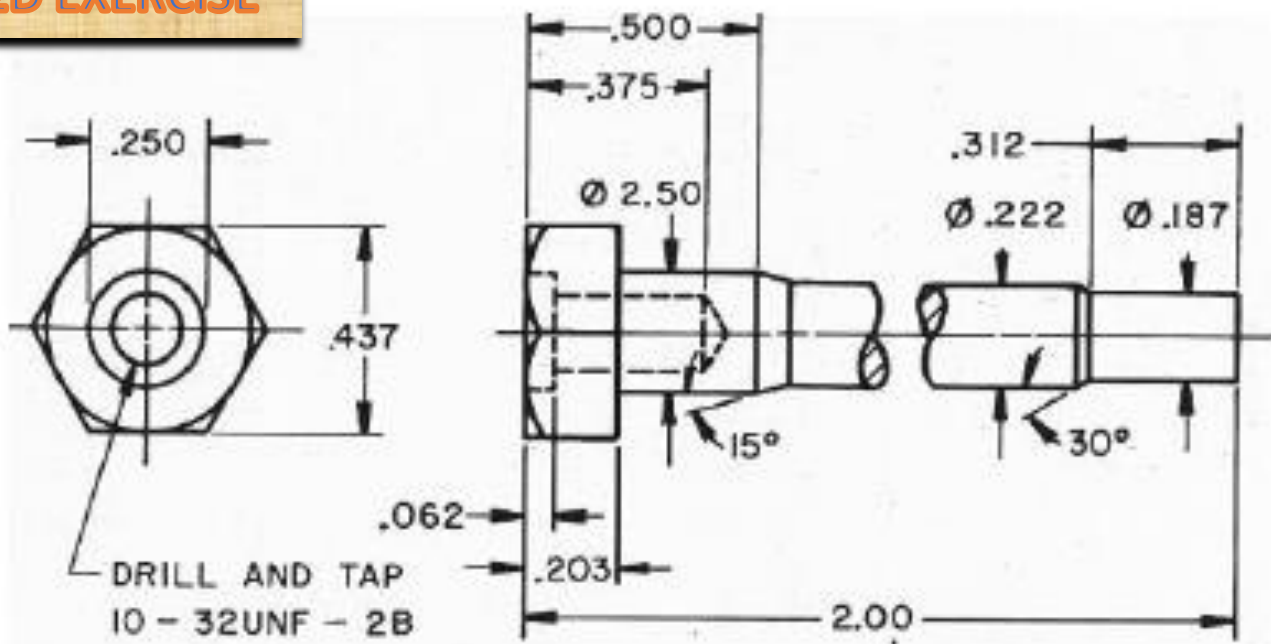


Form Roll Lever.

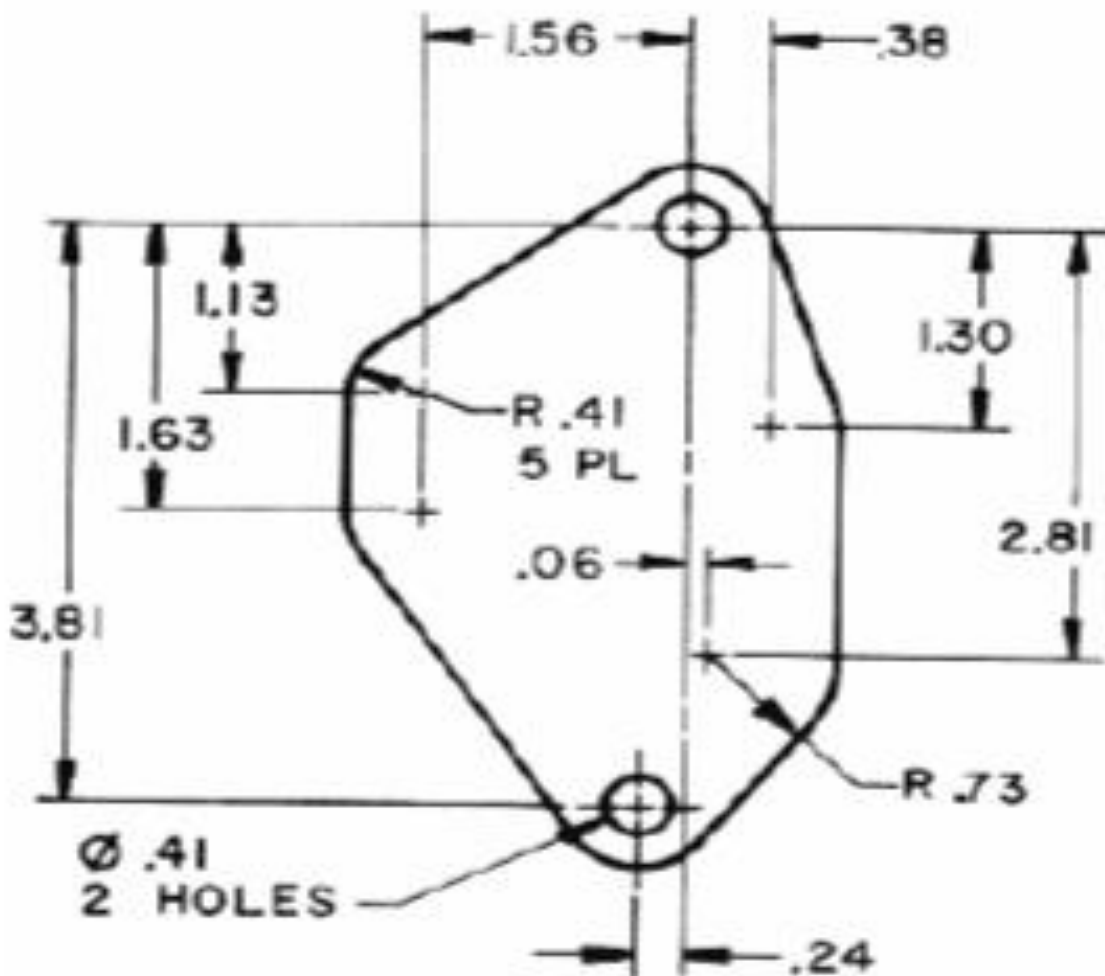
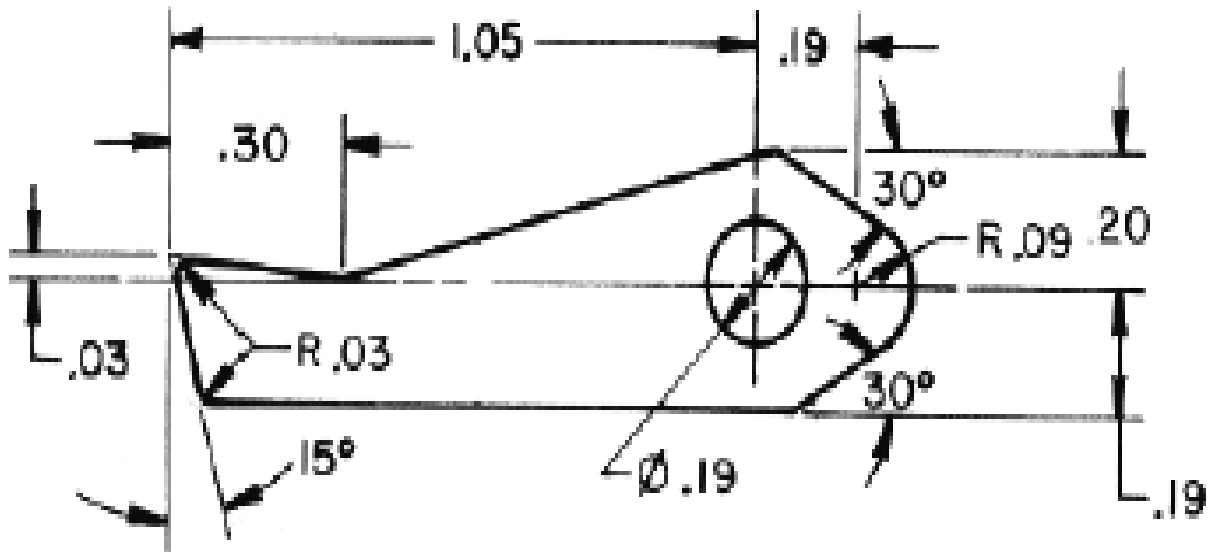
2D EXERCISE



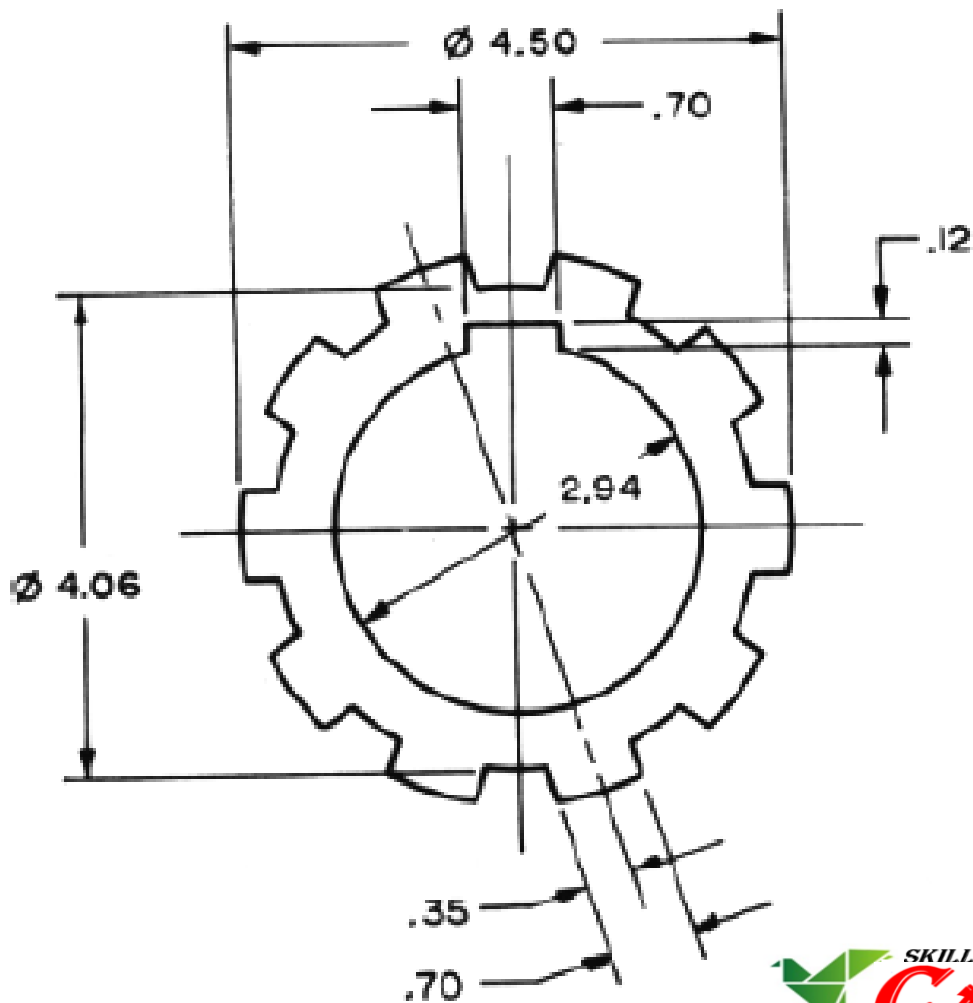
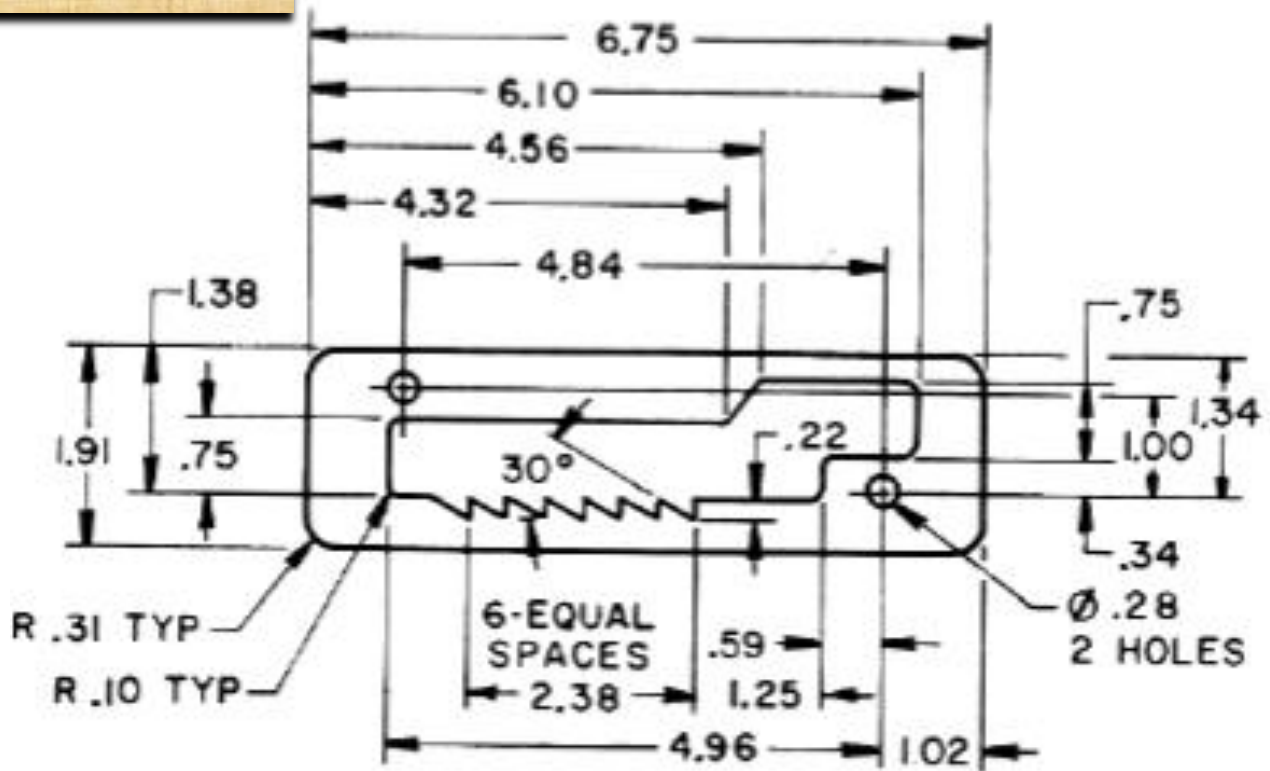
2D EXERCISE



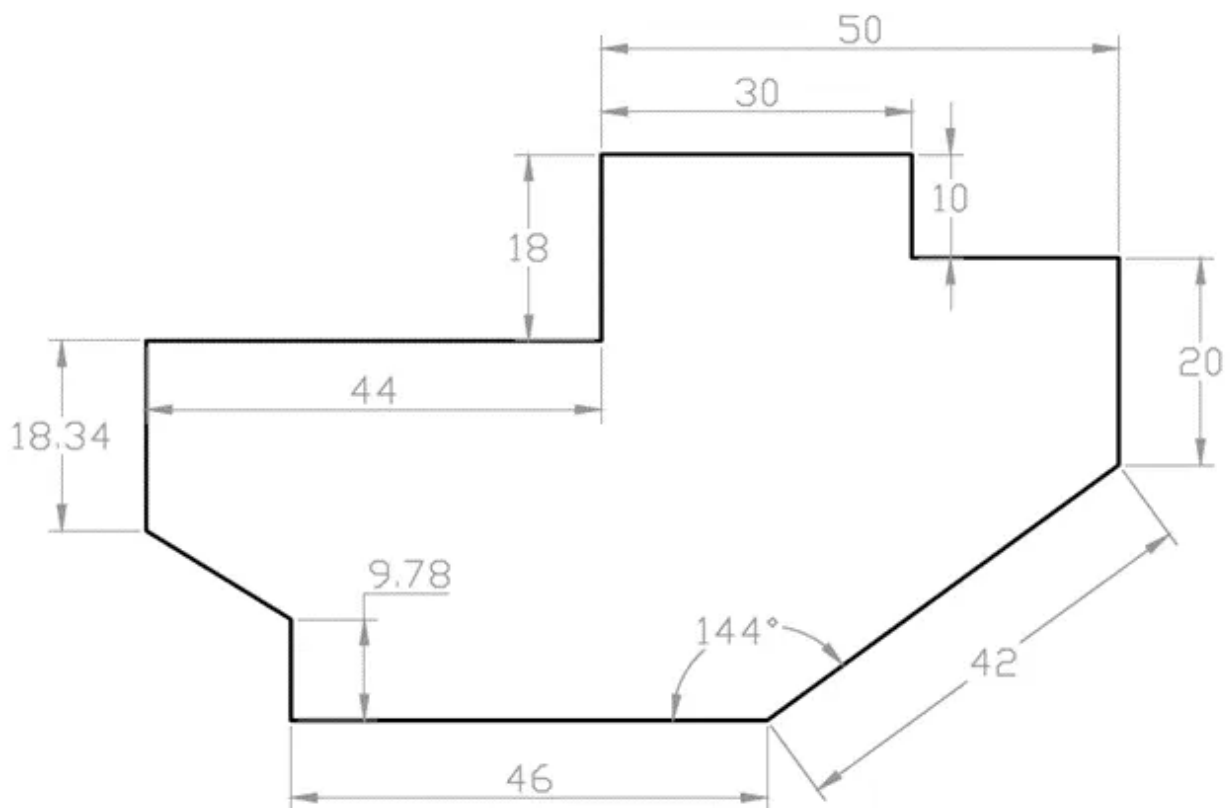
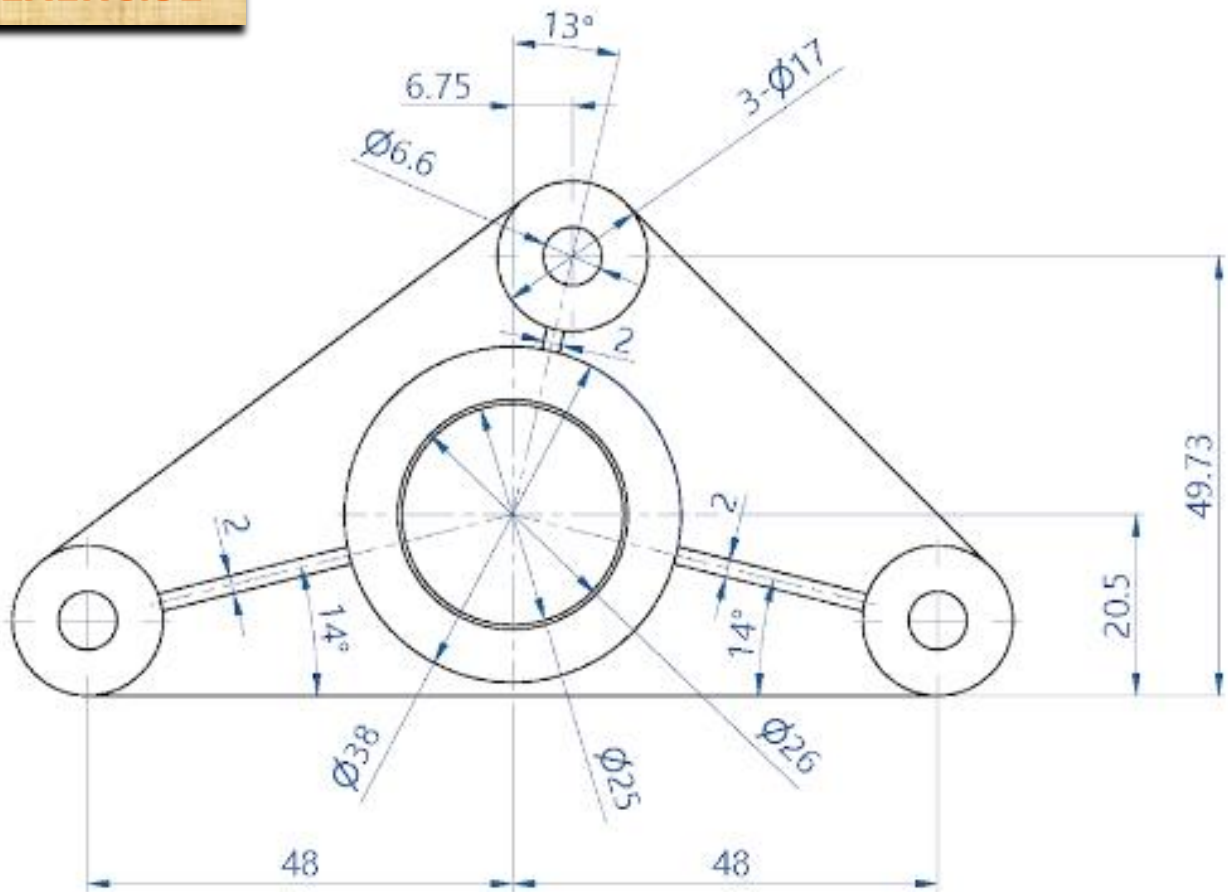
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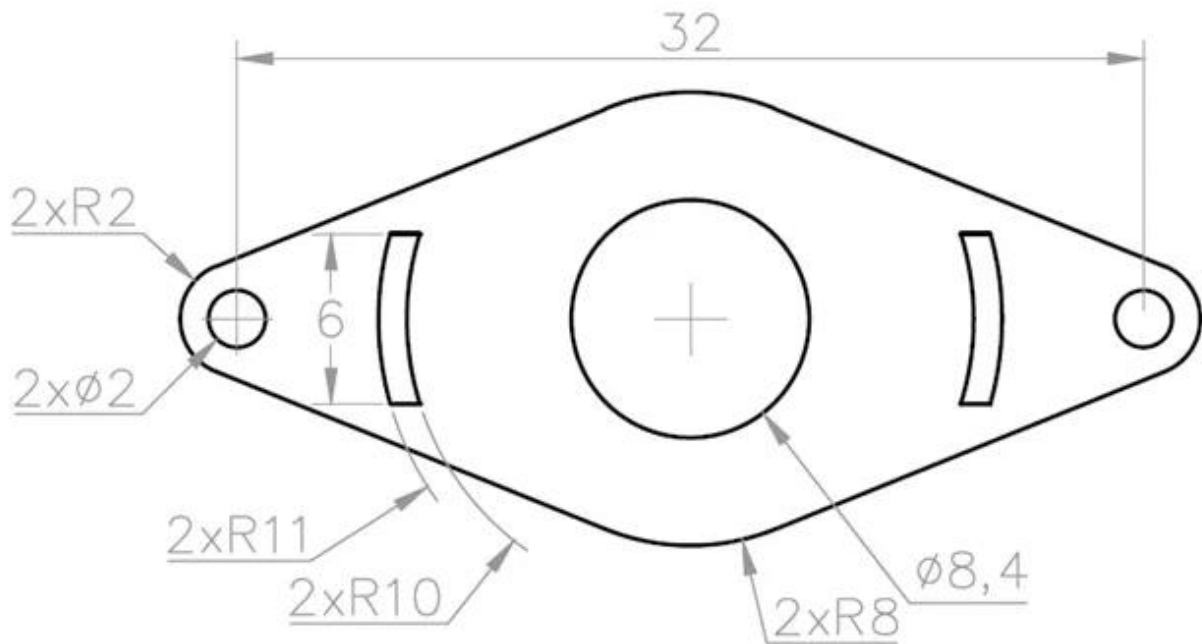
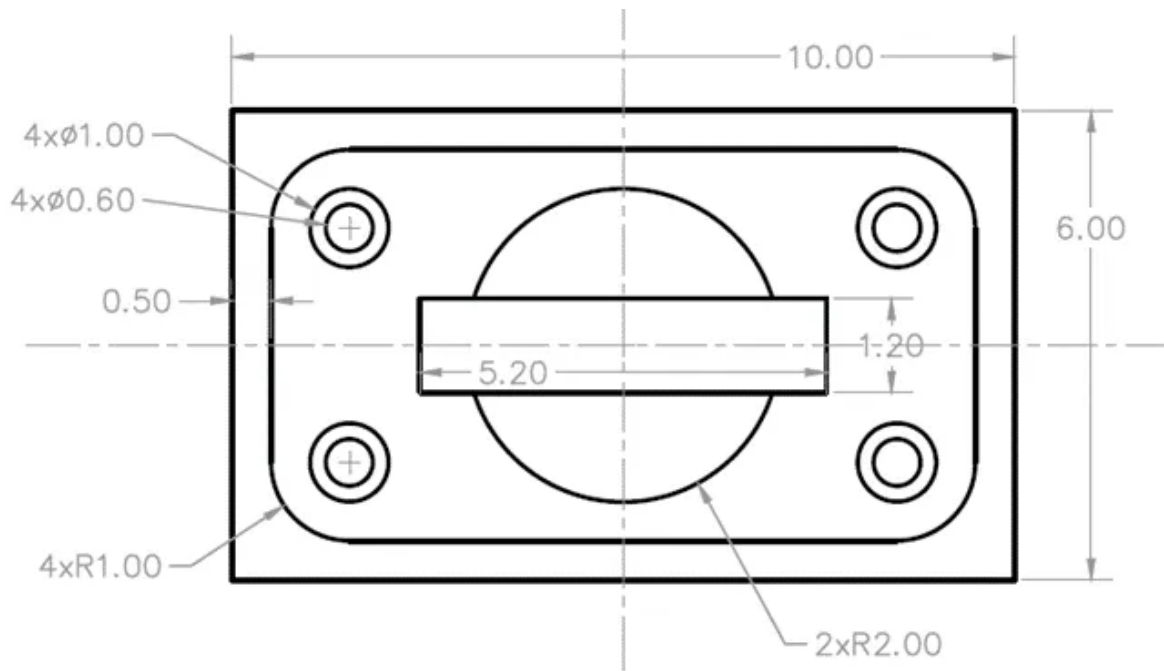
2D EXERCISE



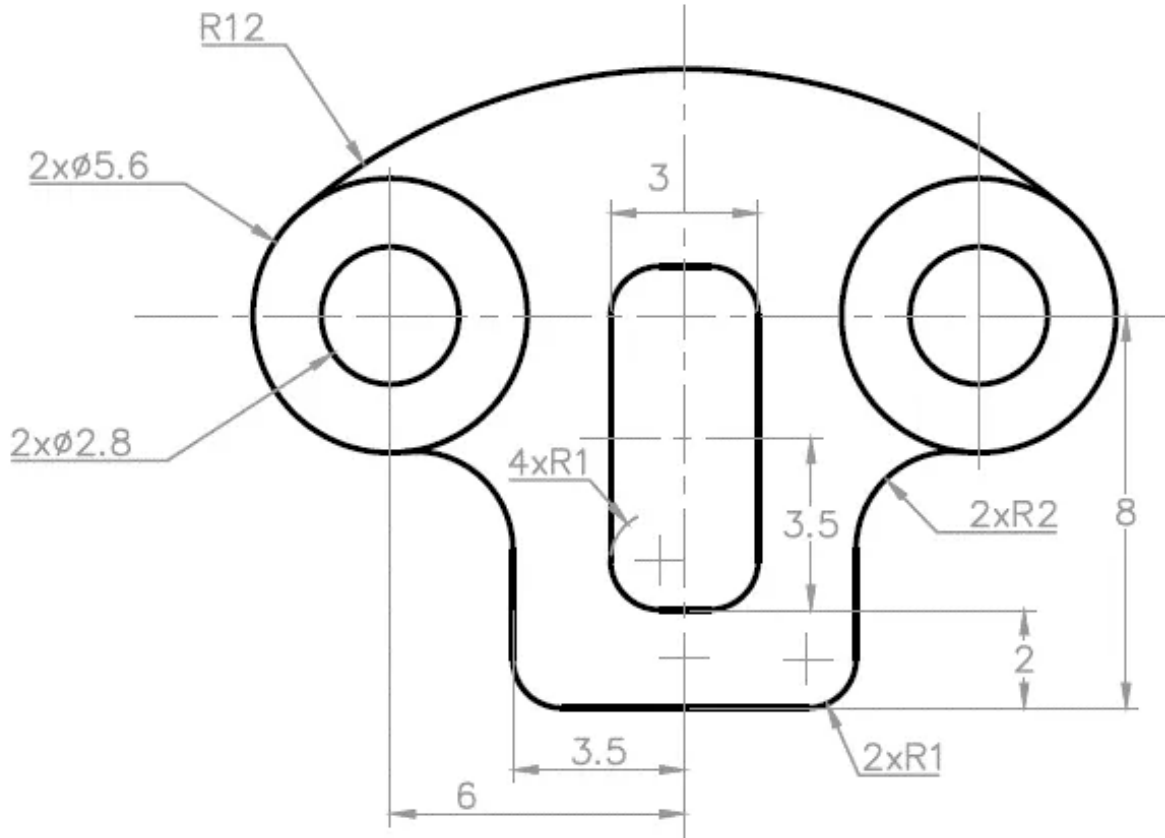
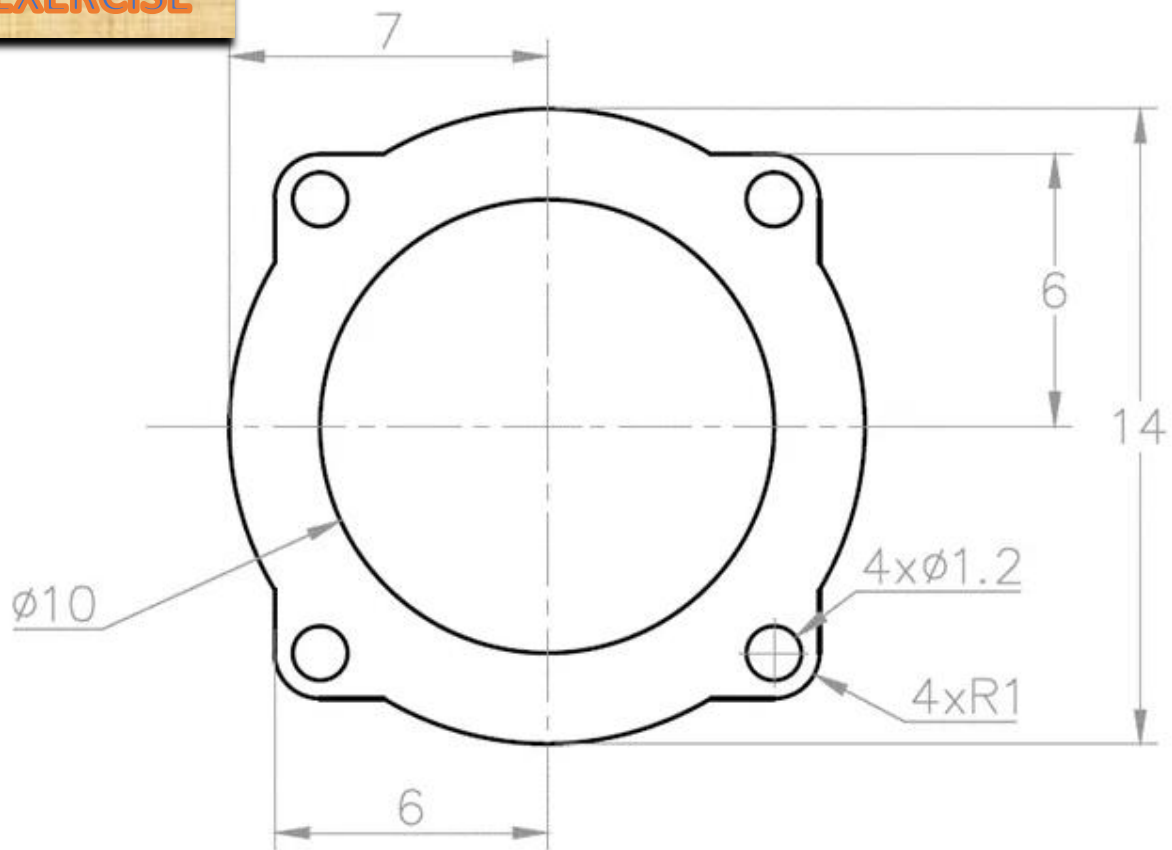
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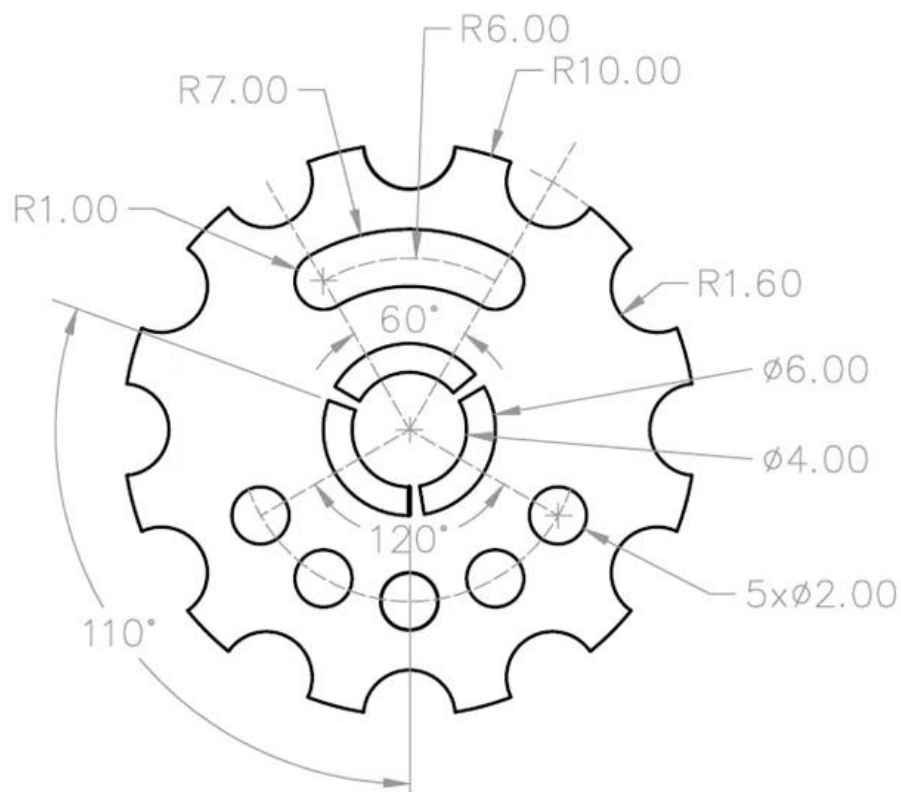
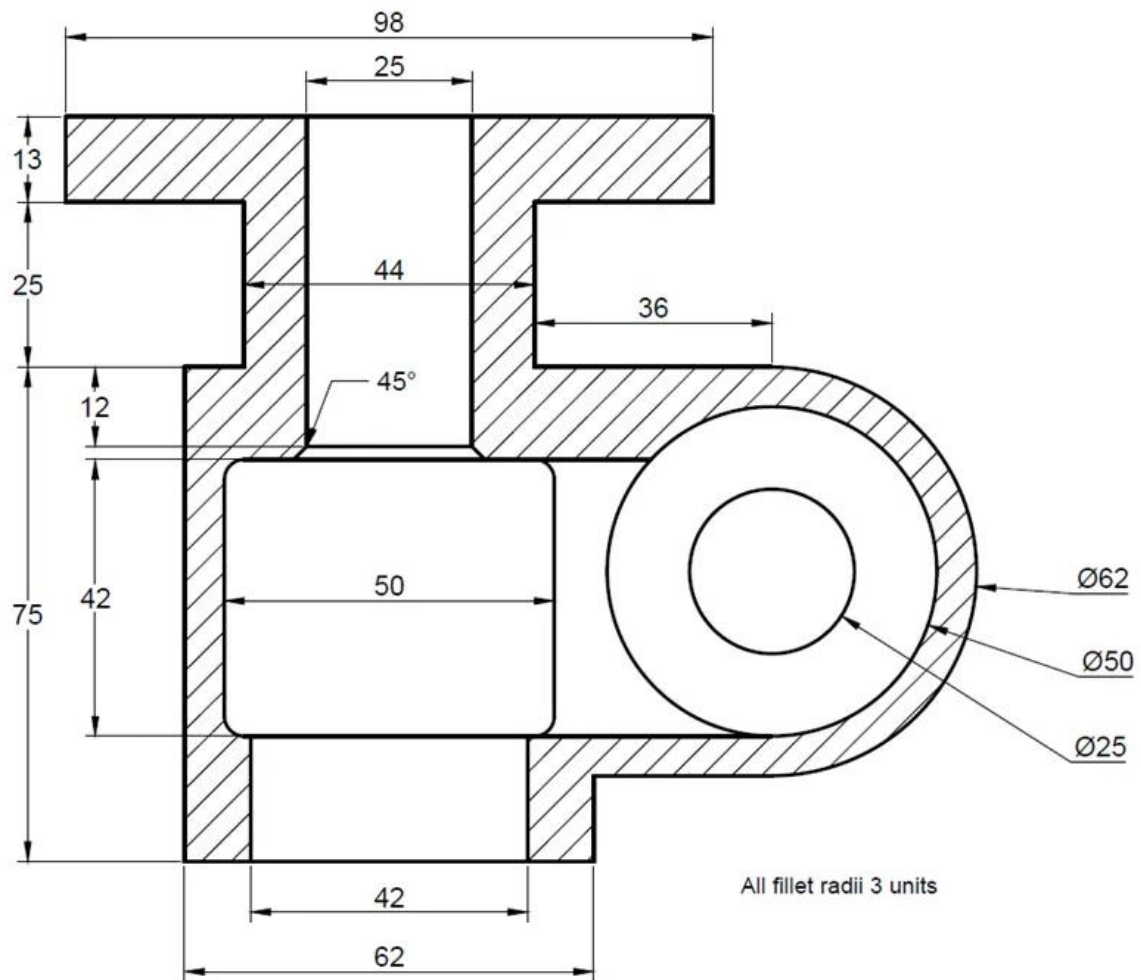


2D EXERCISE



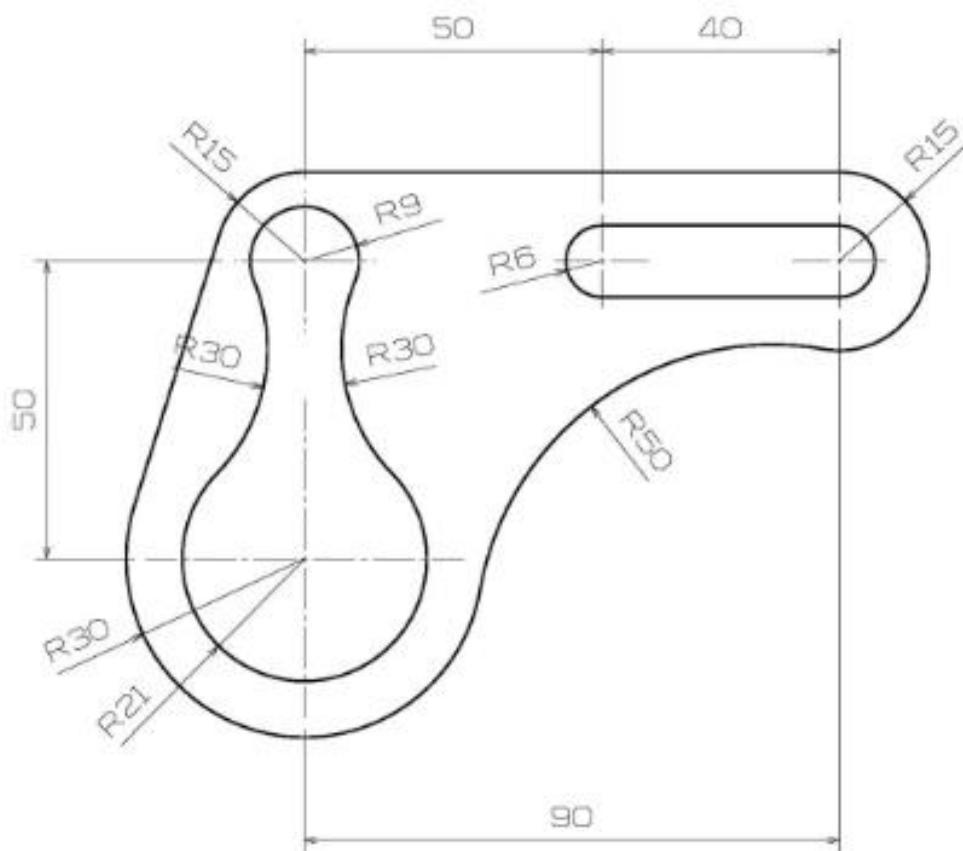
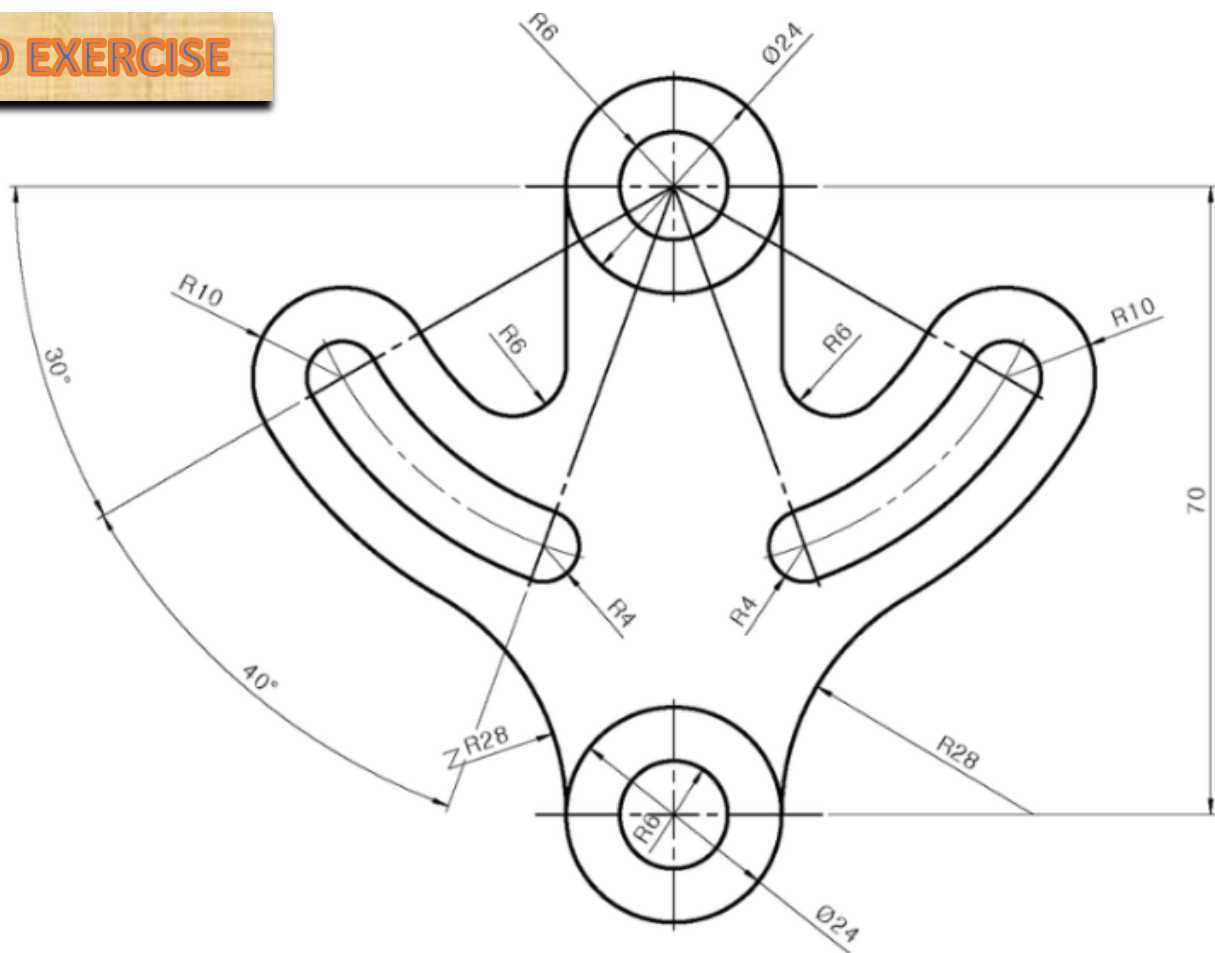
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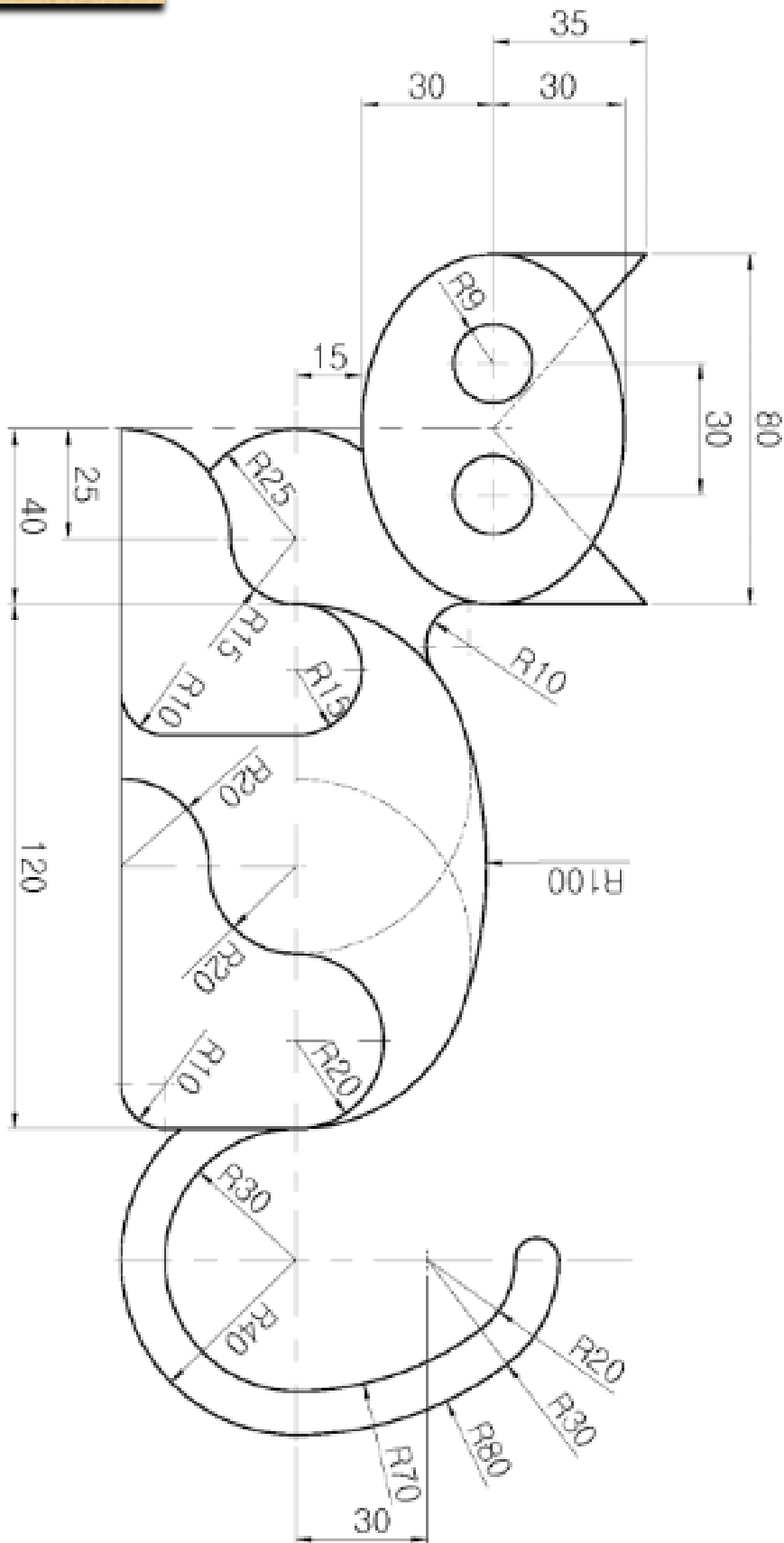


2D EXERCISE

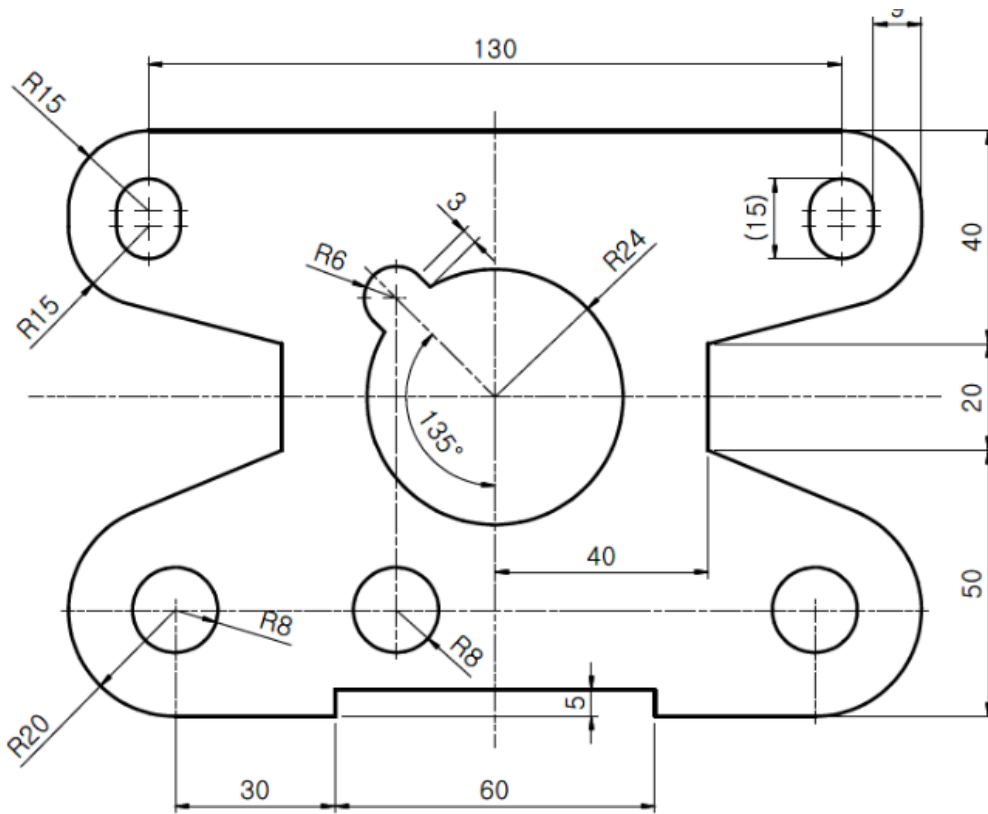
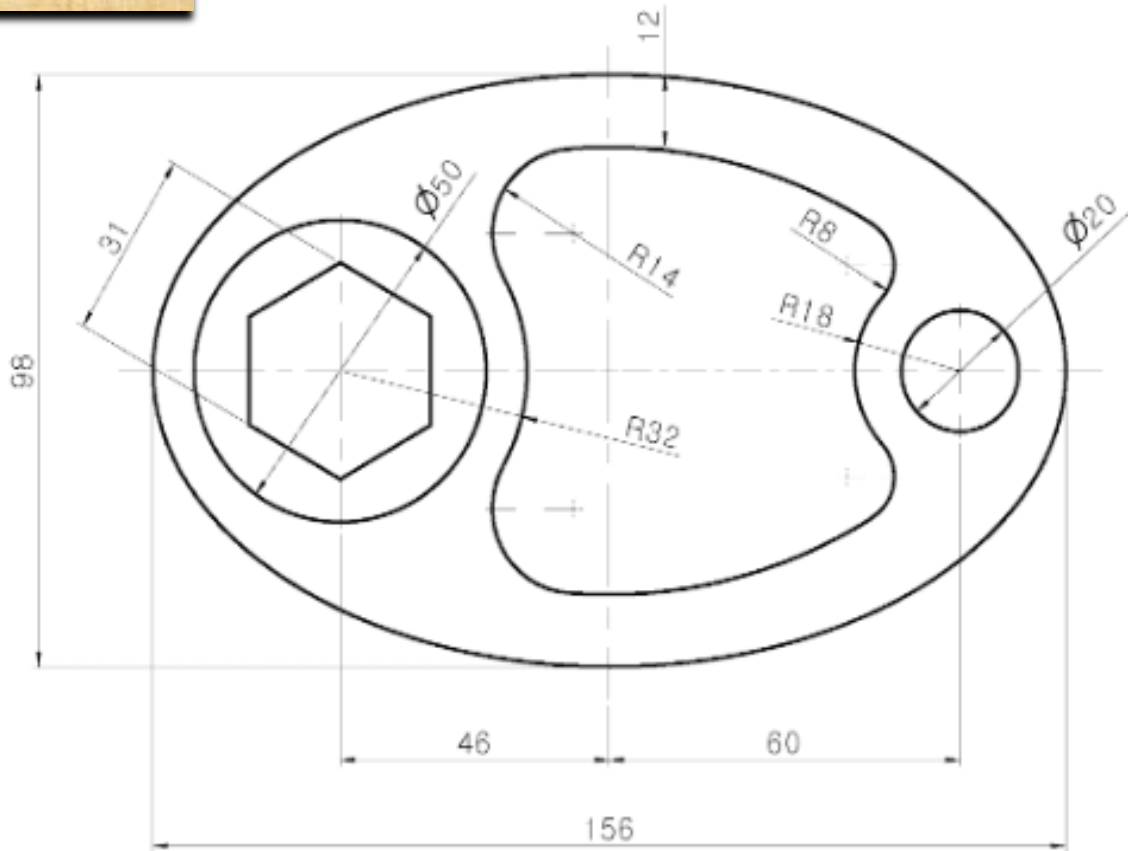
2D EXERCISE



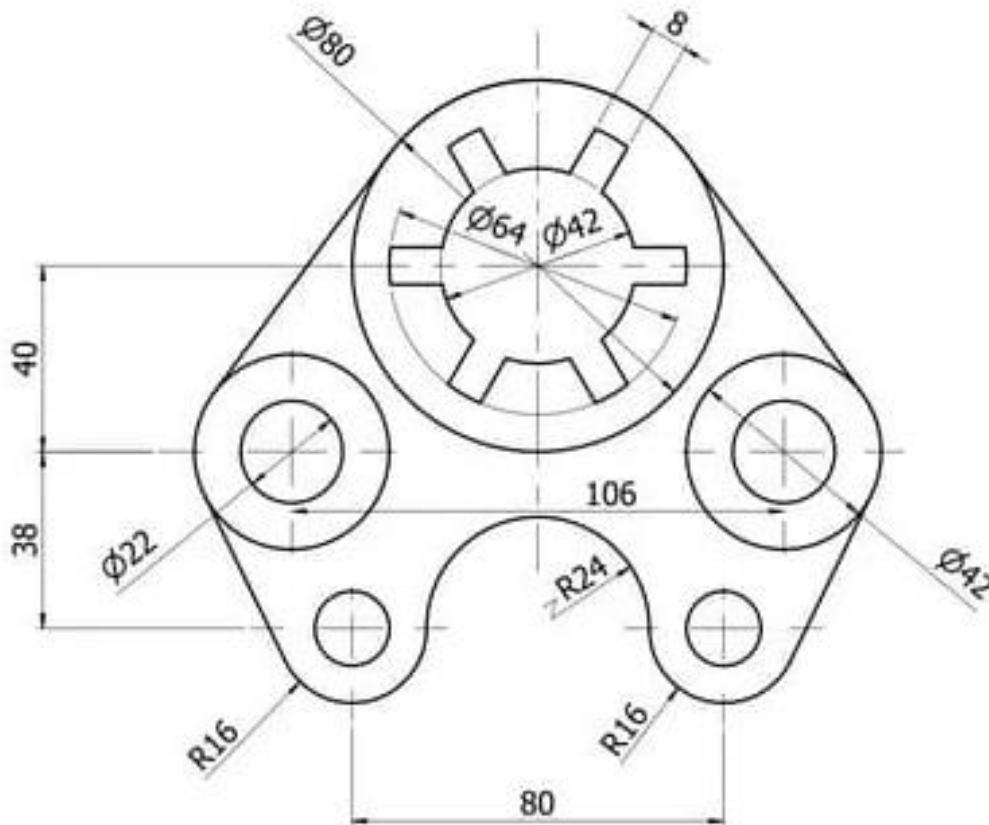
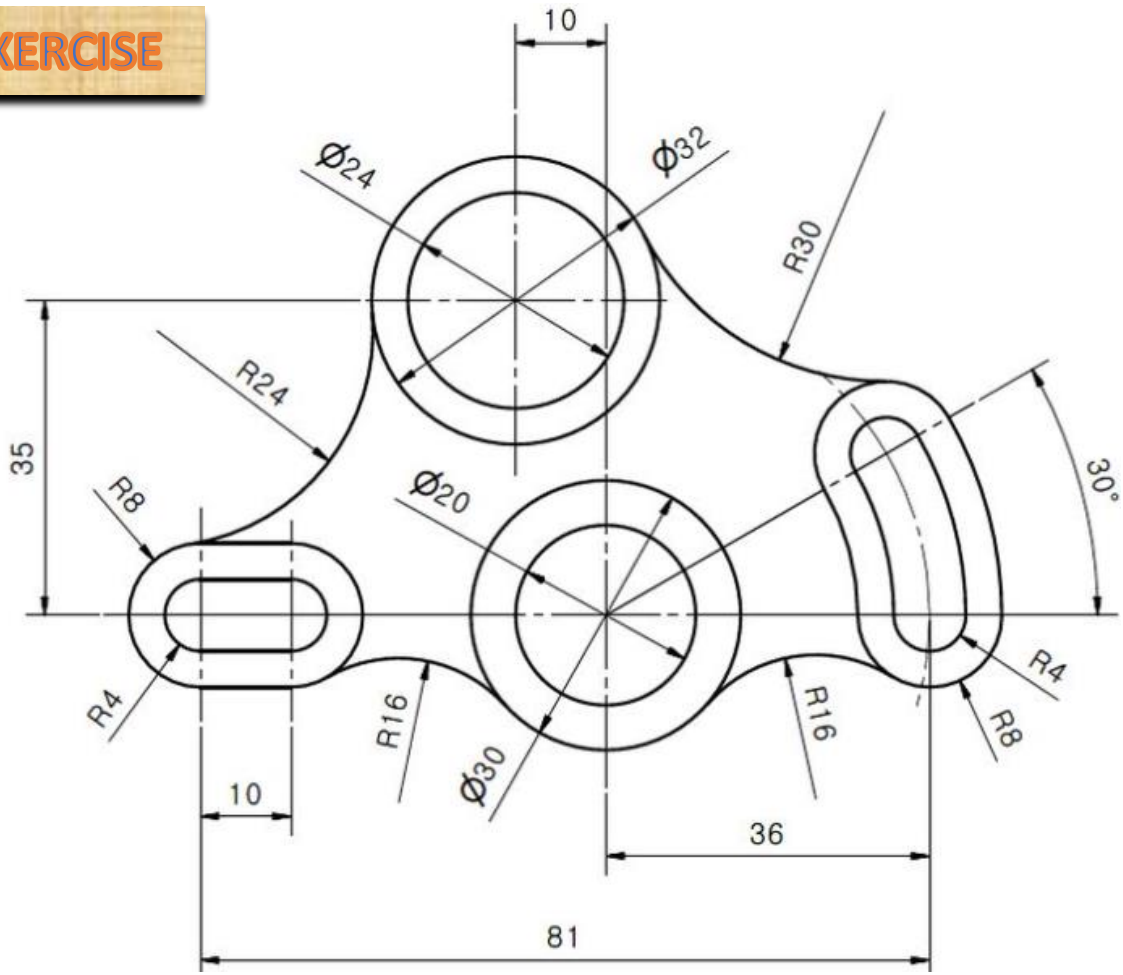
2D EXERCISE



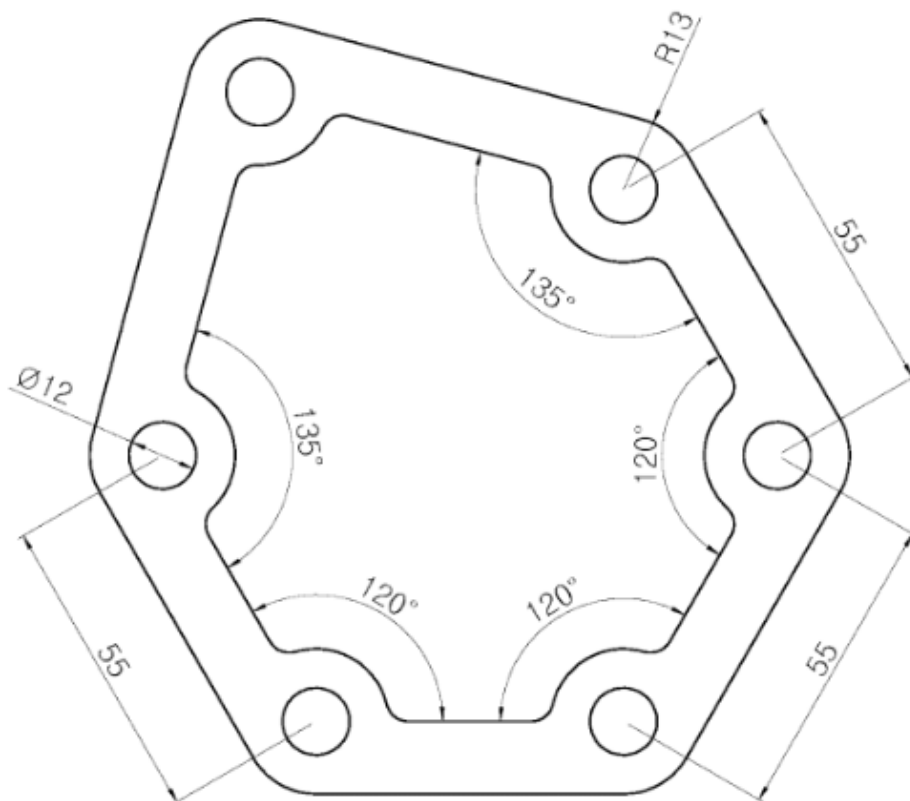
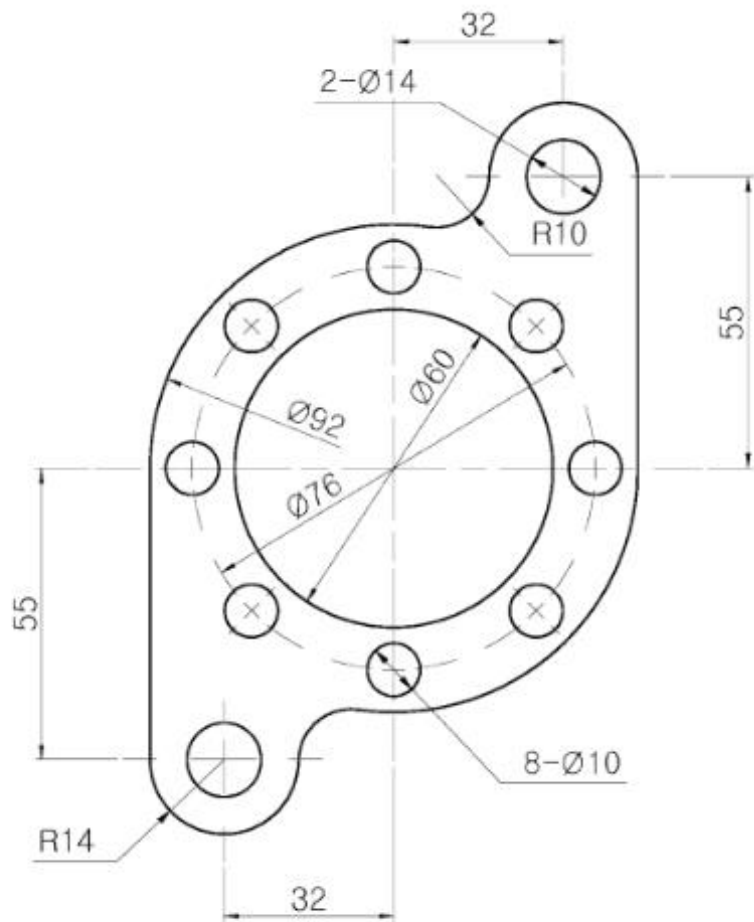
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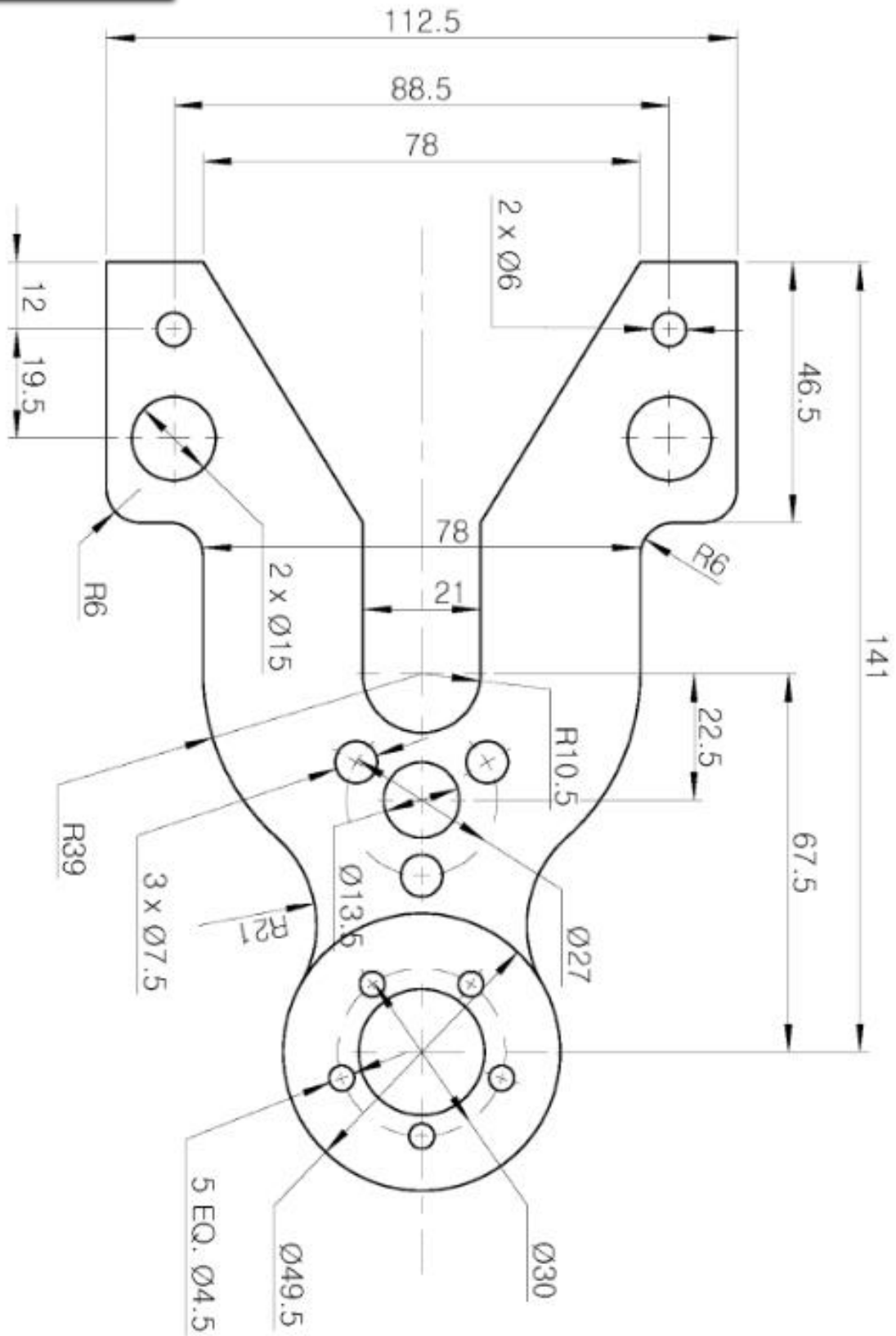
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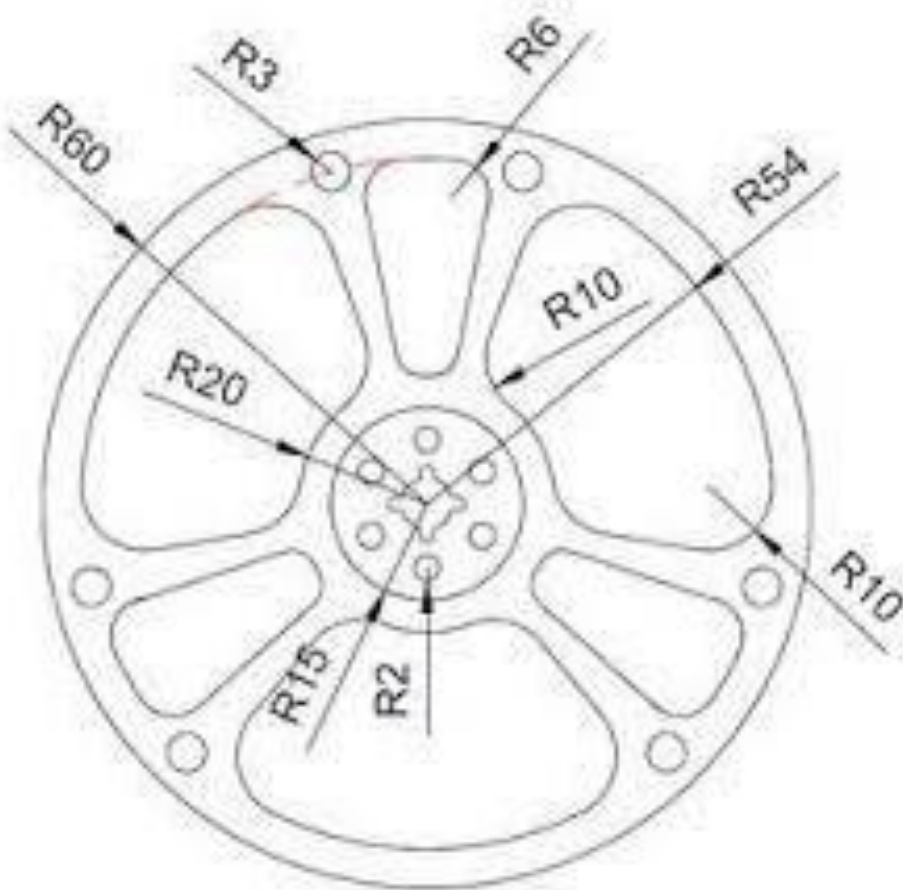
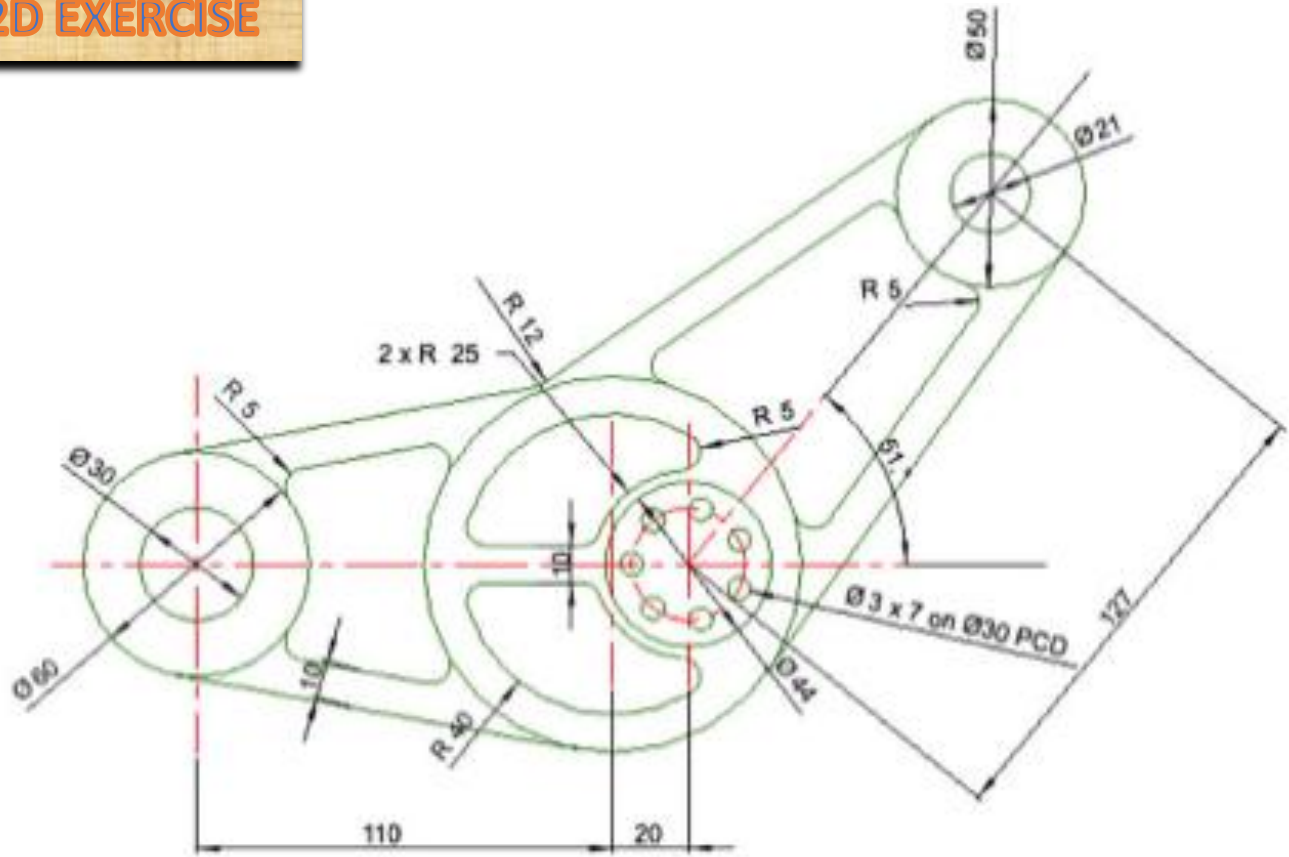
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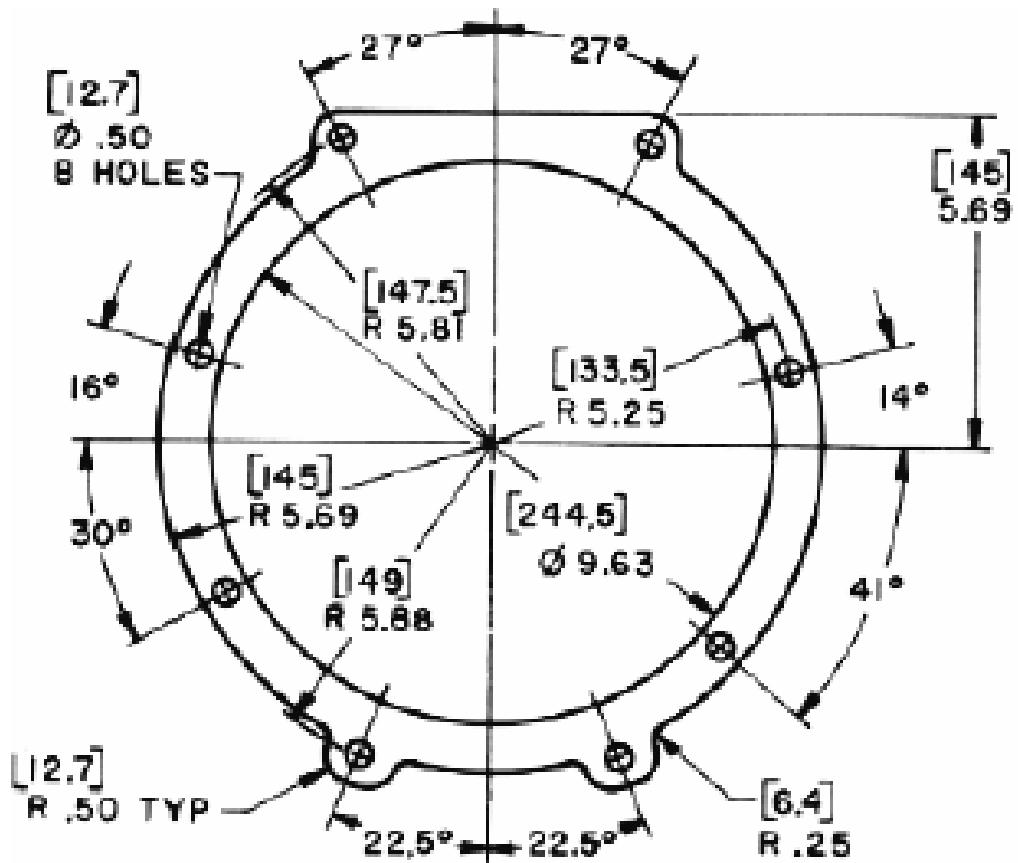


2D EXERCISE

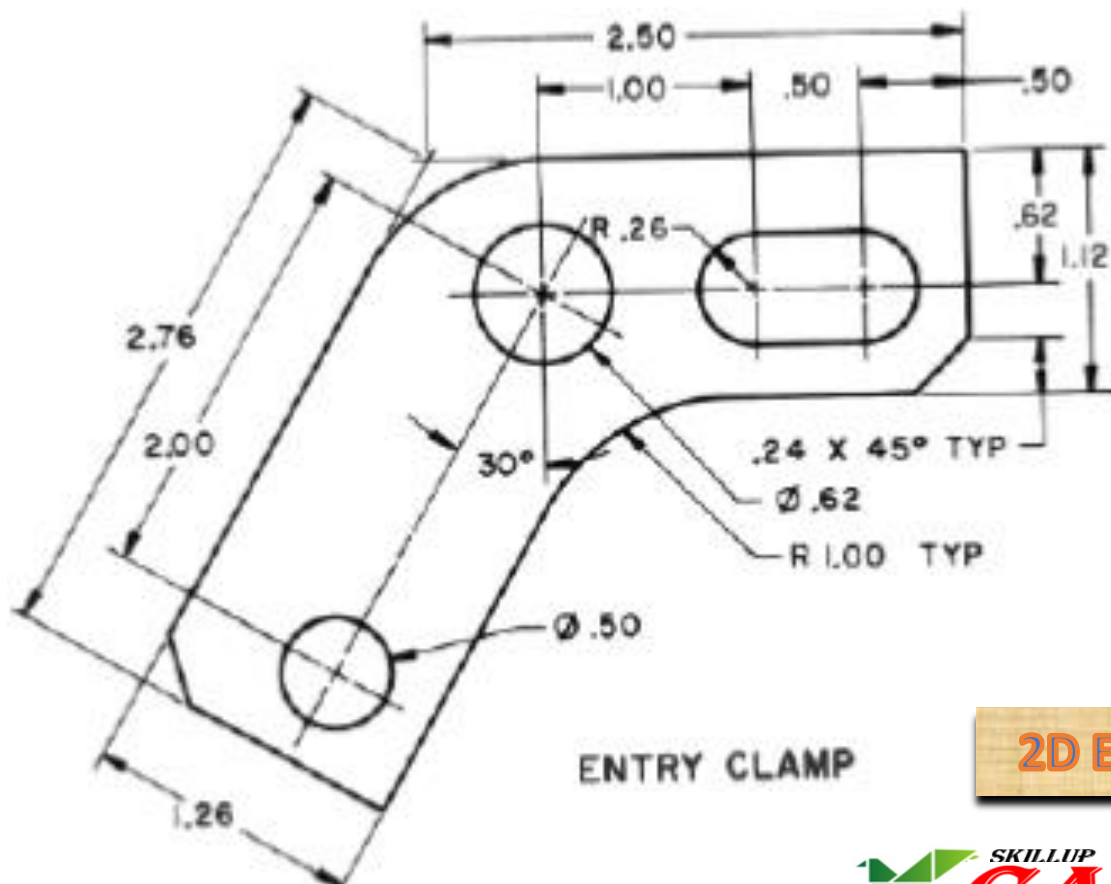


2D EXERCISE





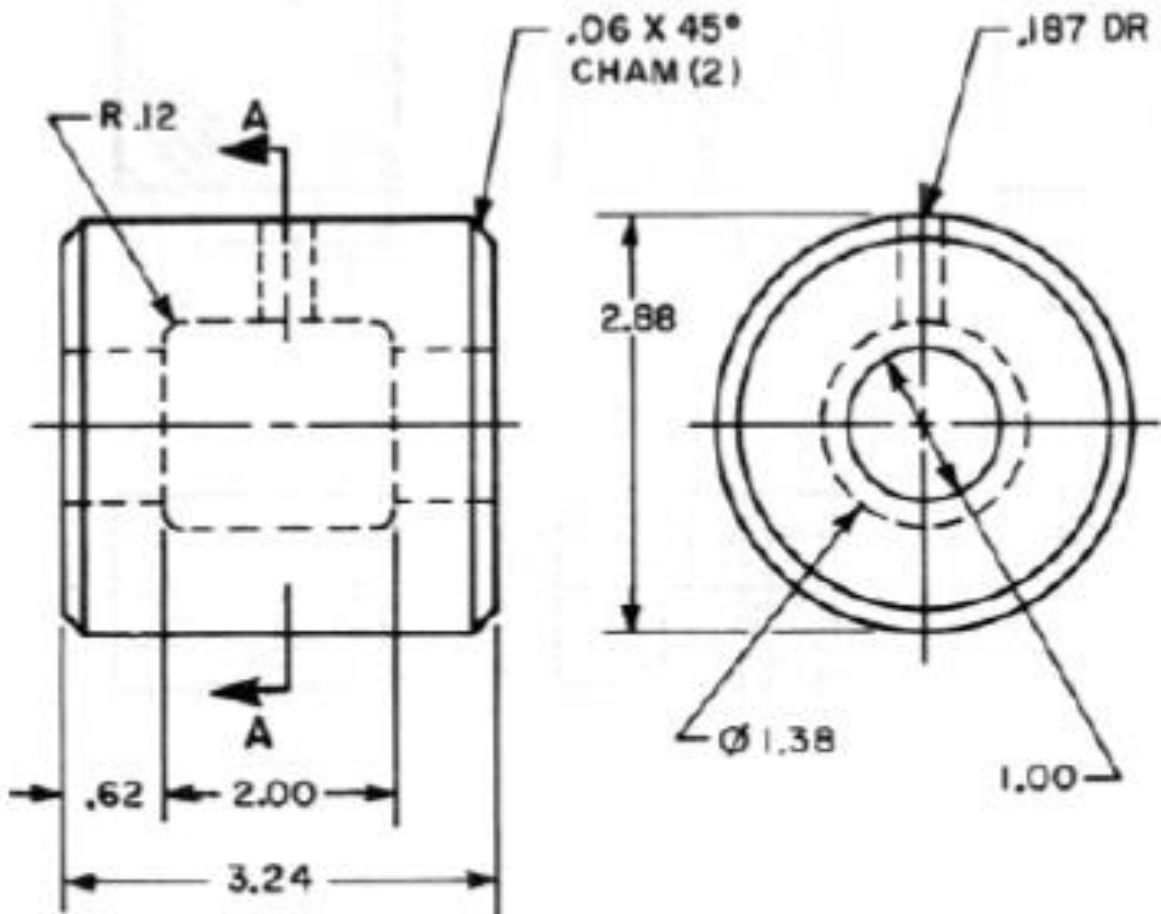
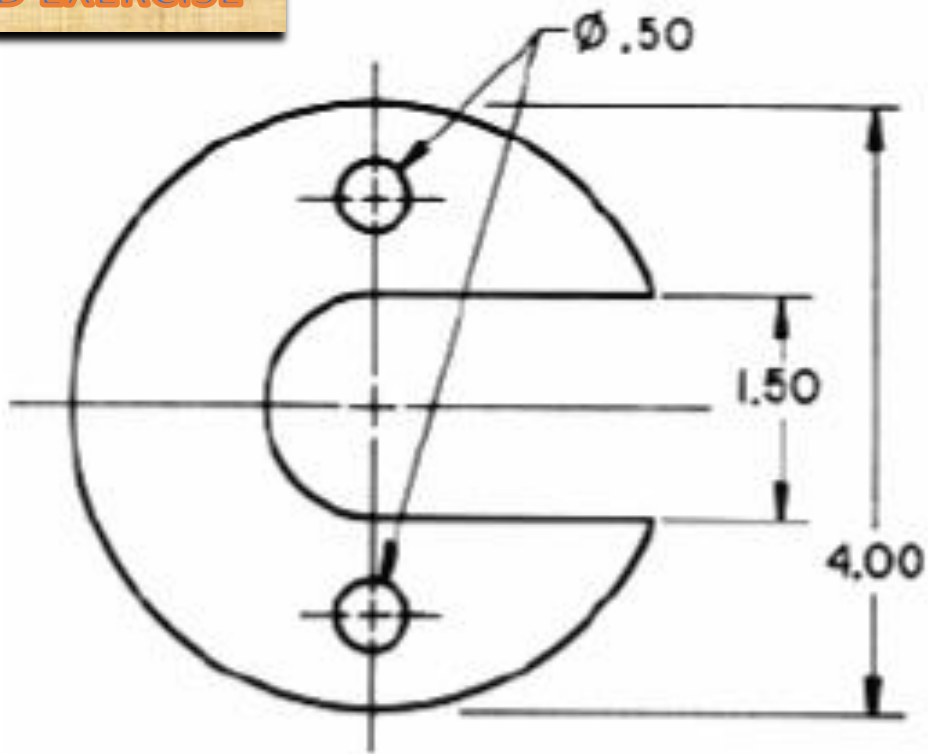
[METRIC]
INCH



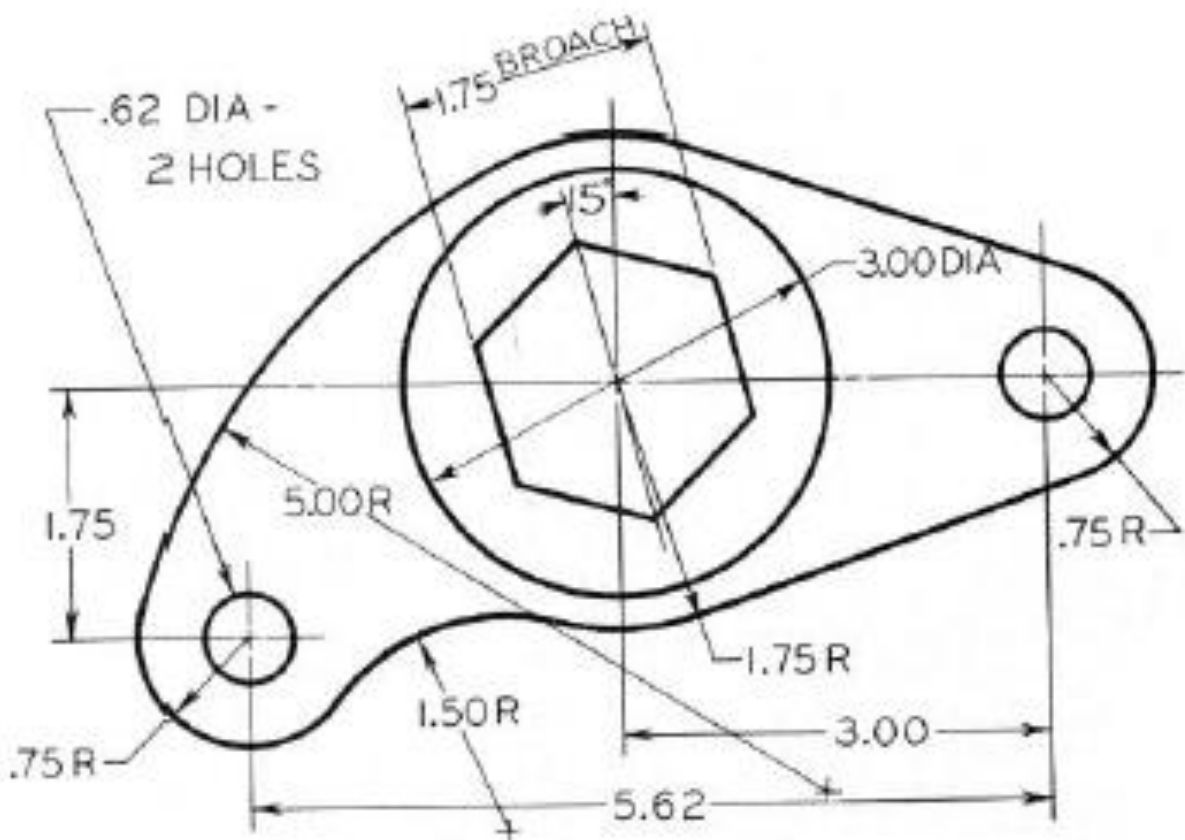
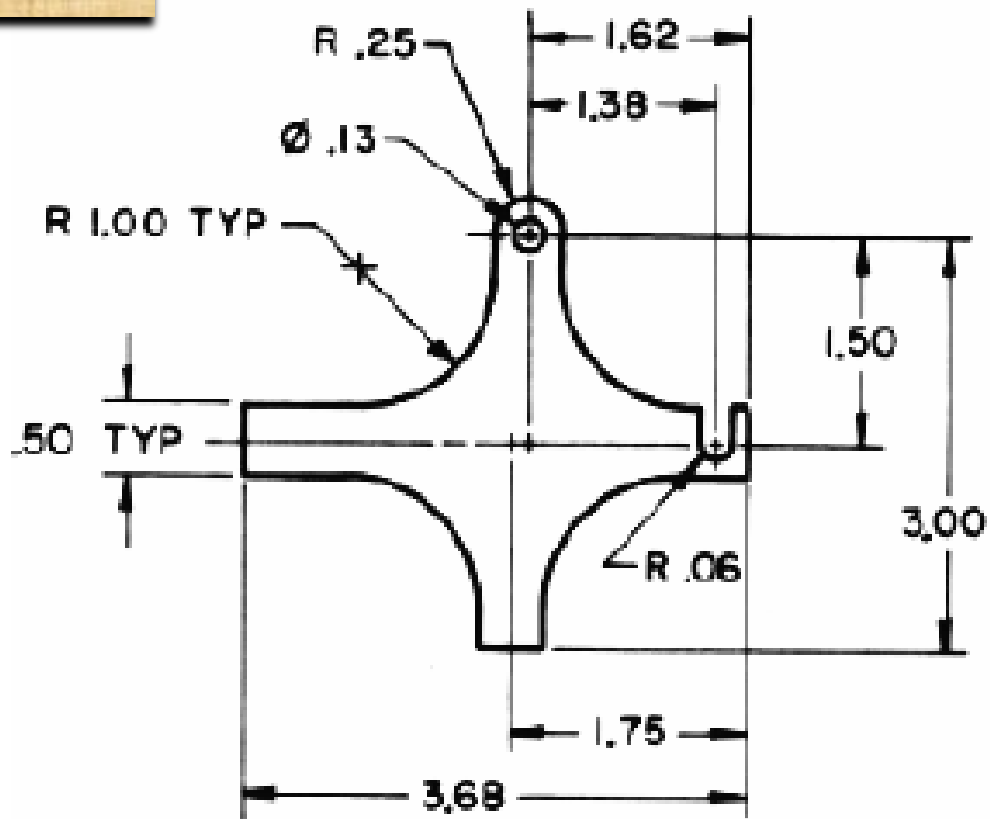
ENTRY CLAMP

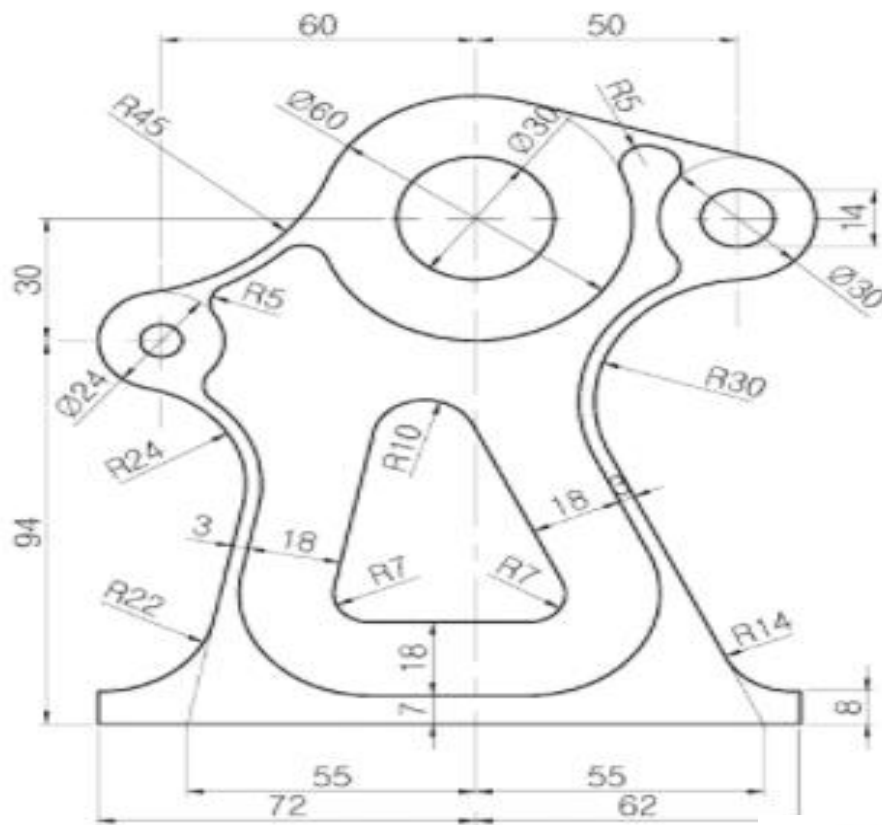
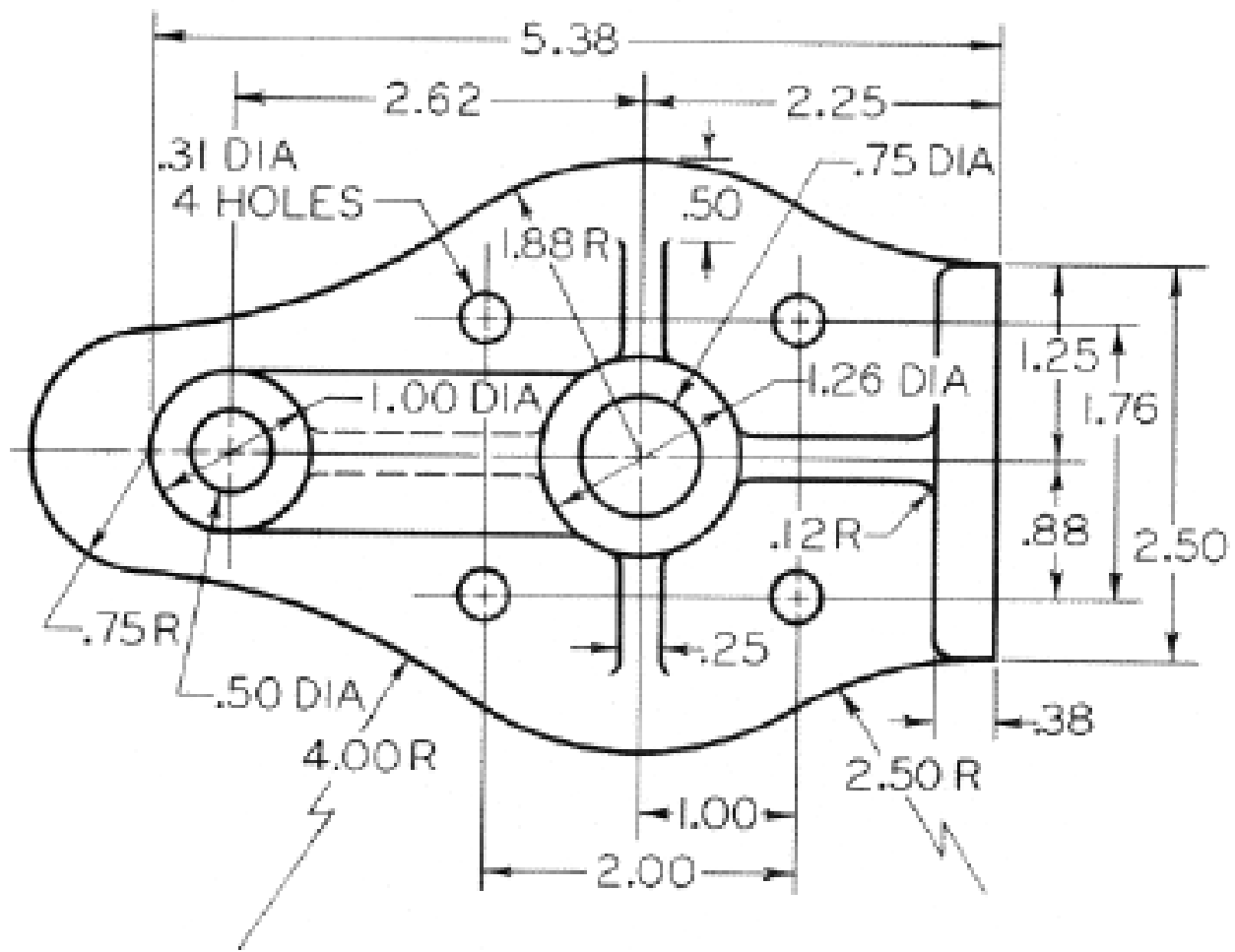
2D EXERCISE

2D EXERCISE



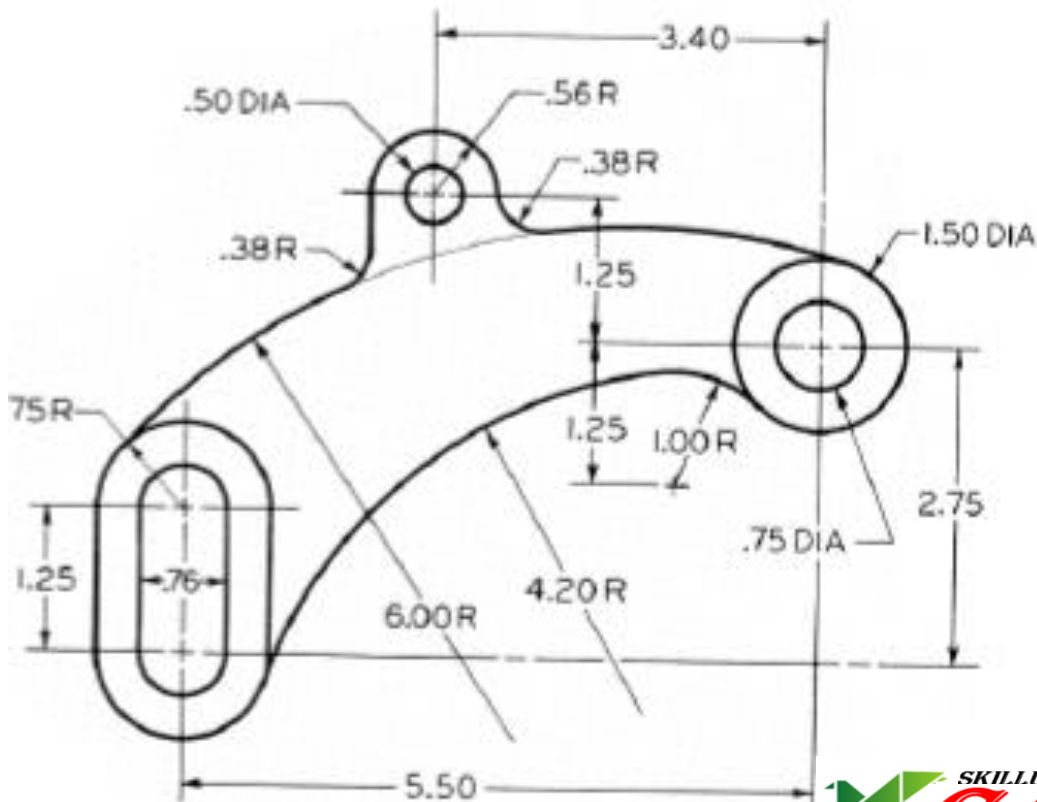
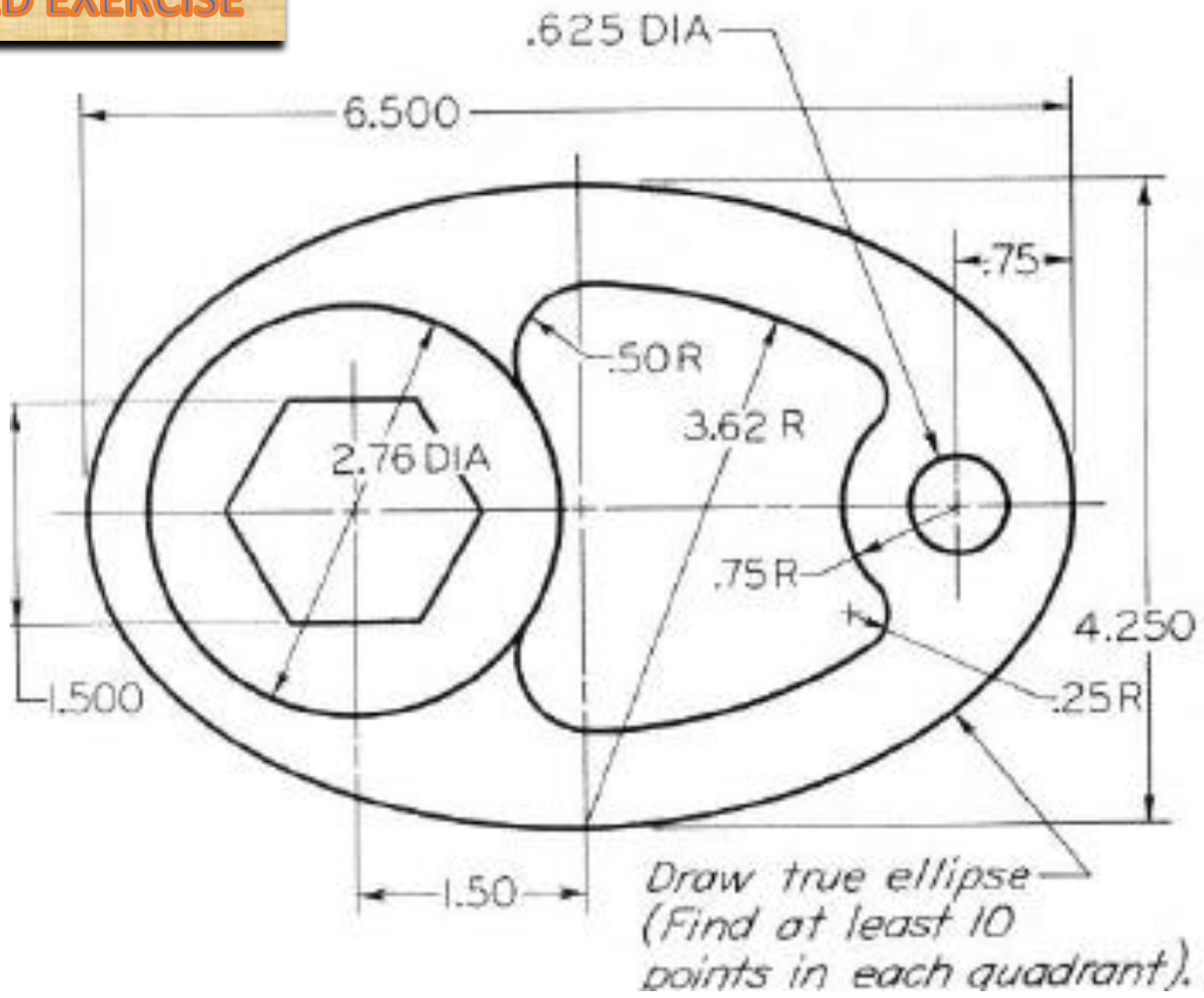
2D EXERCISE



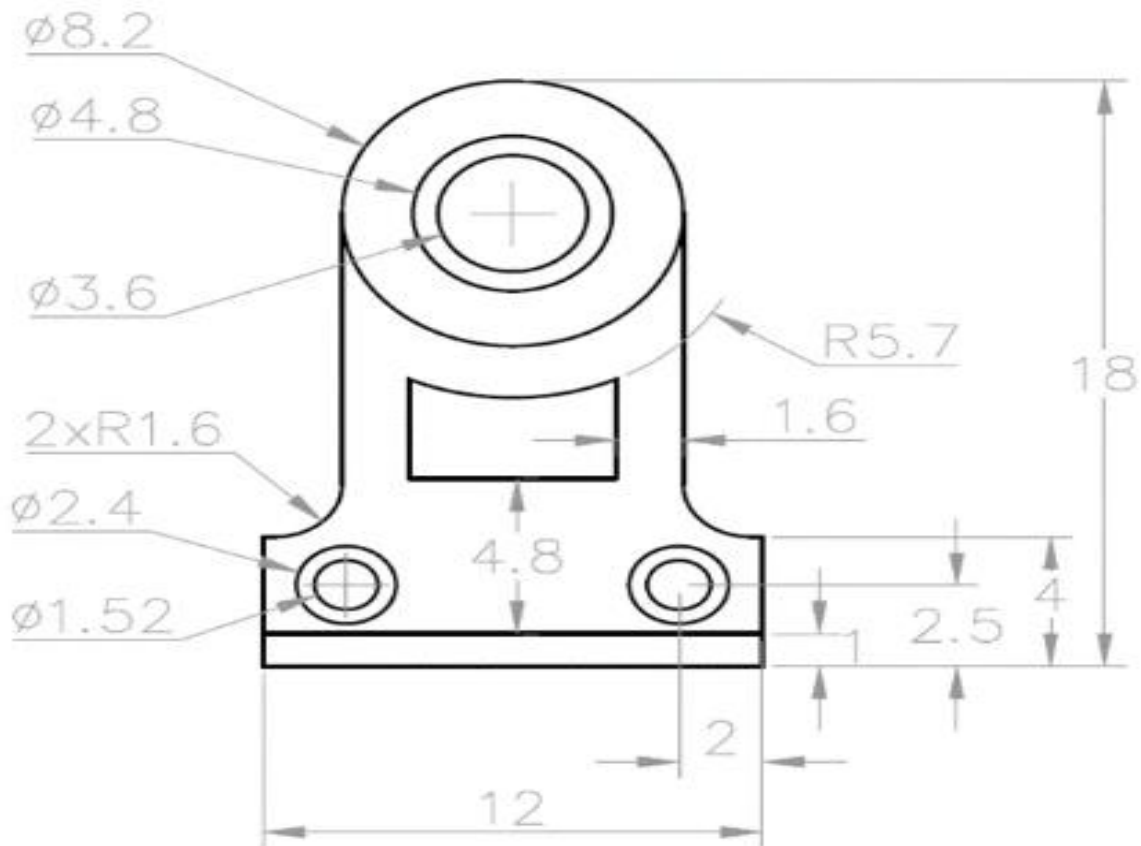
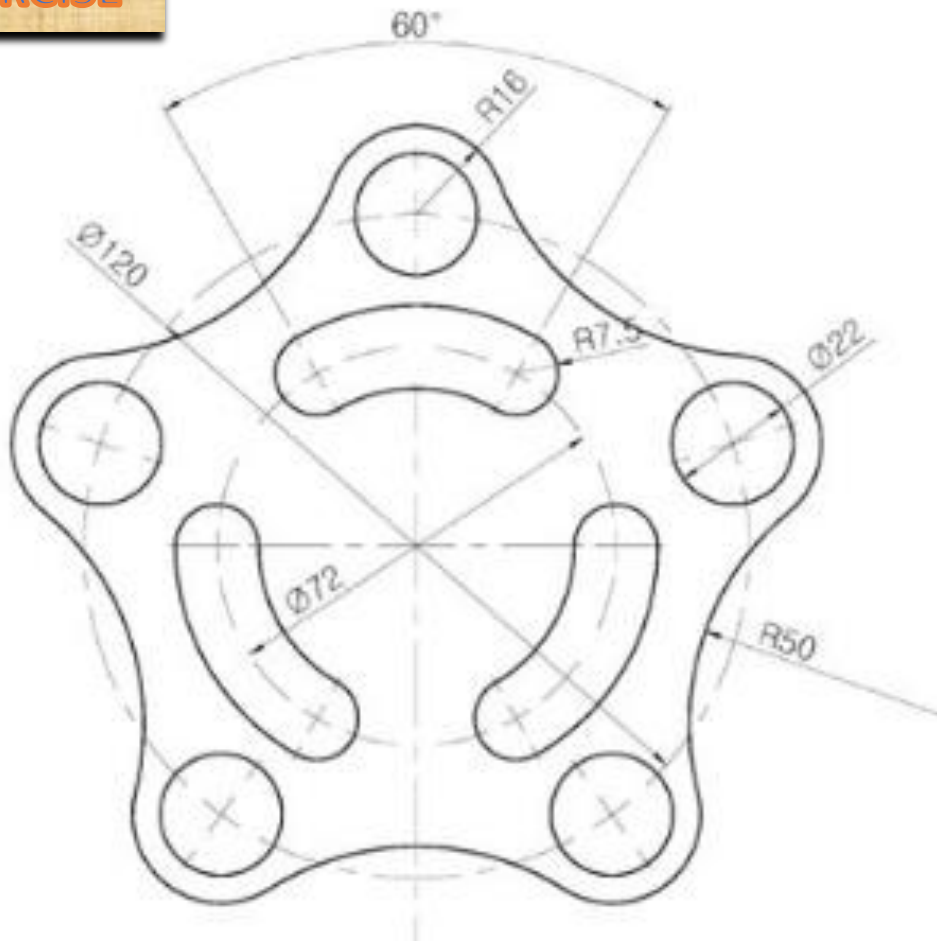


2D EXERCISE

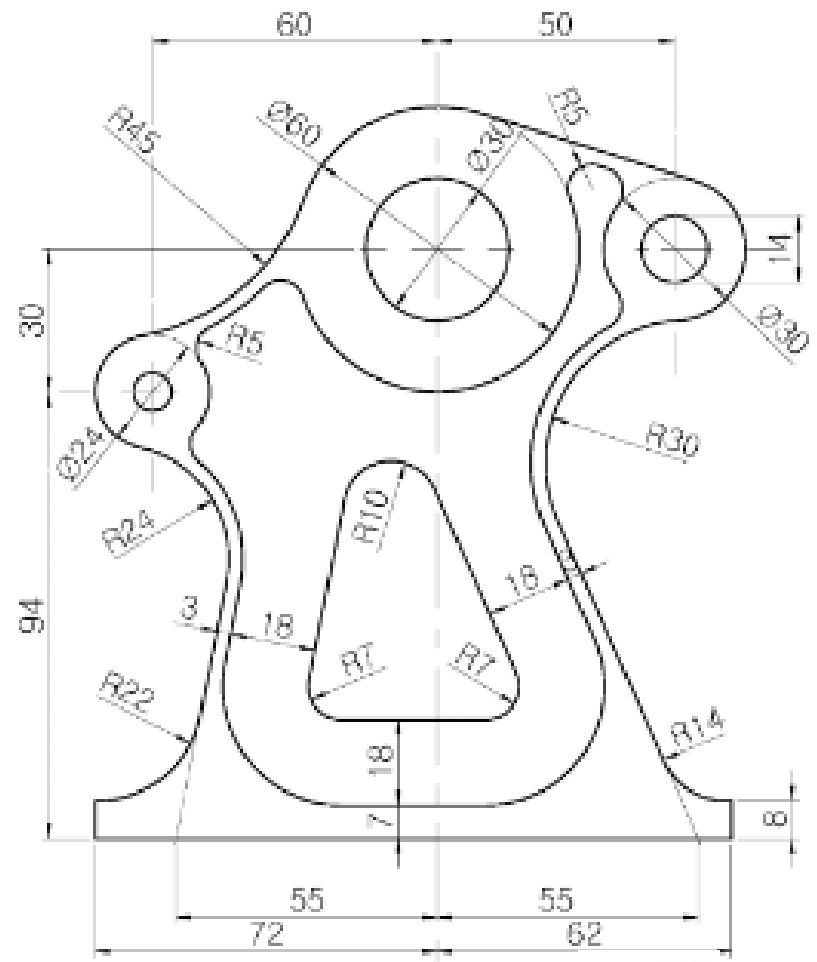
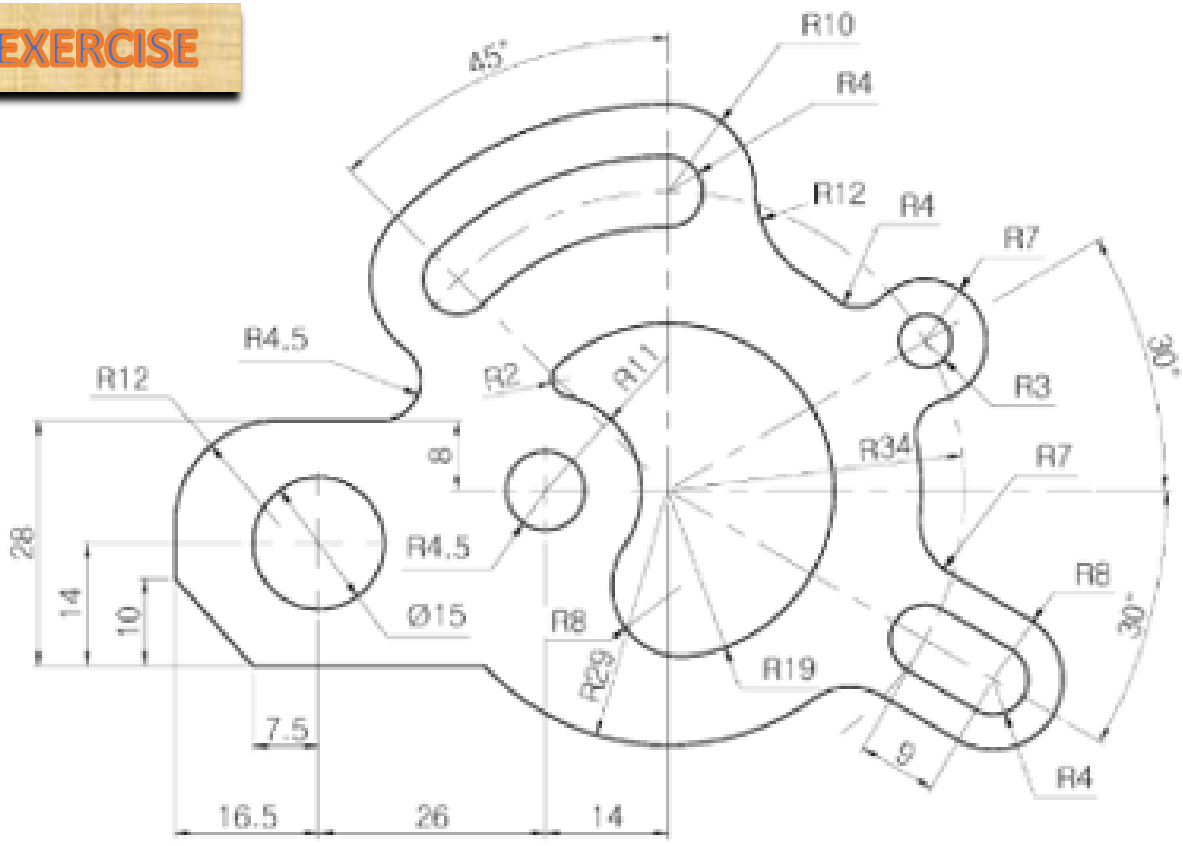
2D EXERCISE



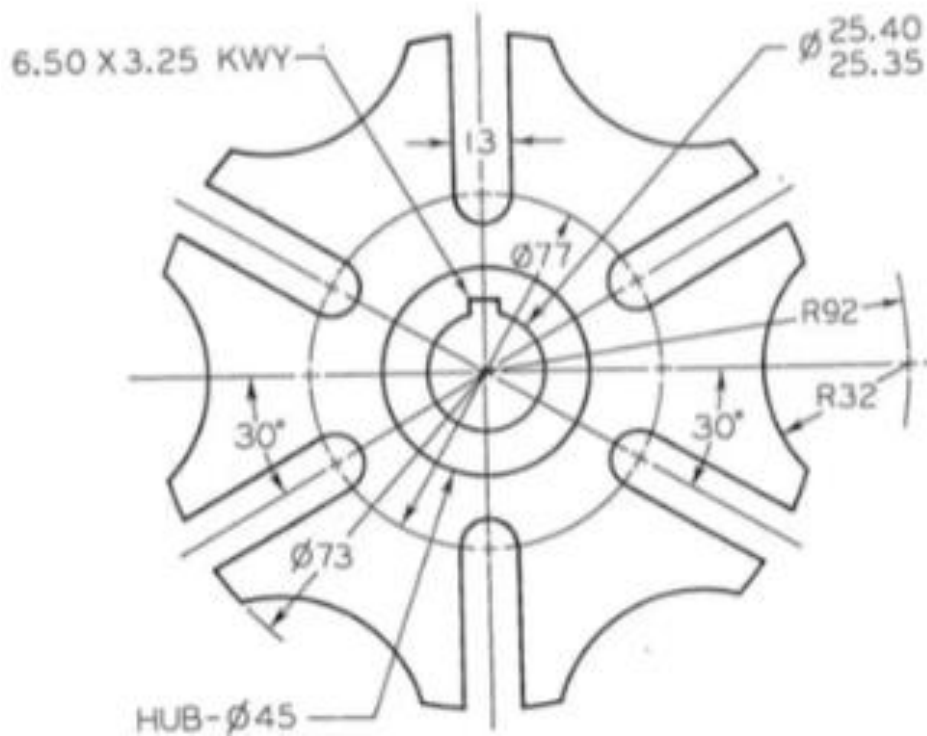
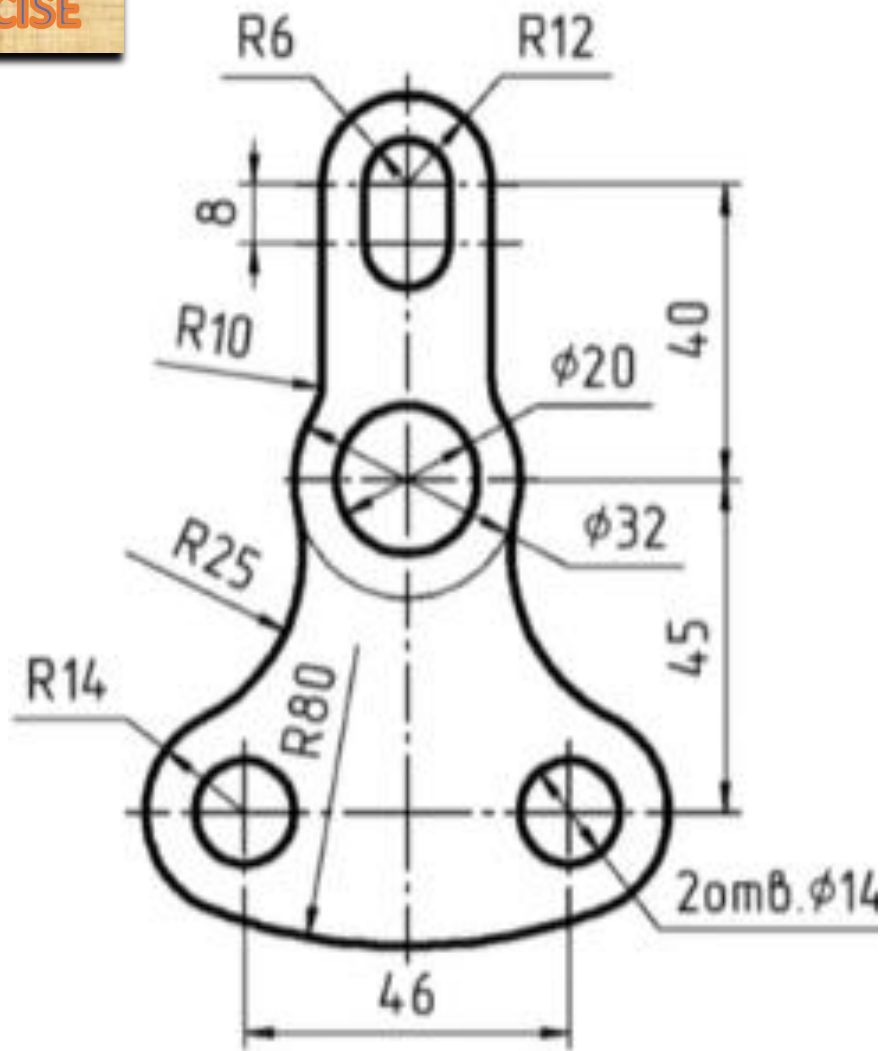
2D EXERCISE



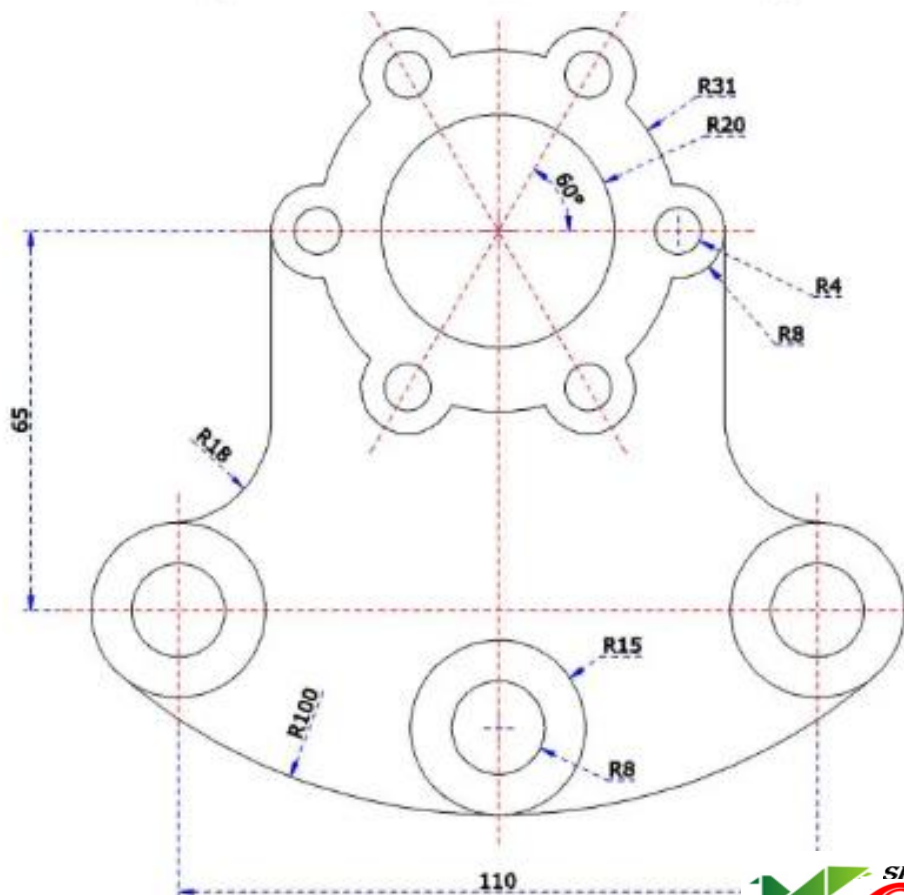
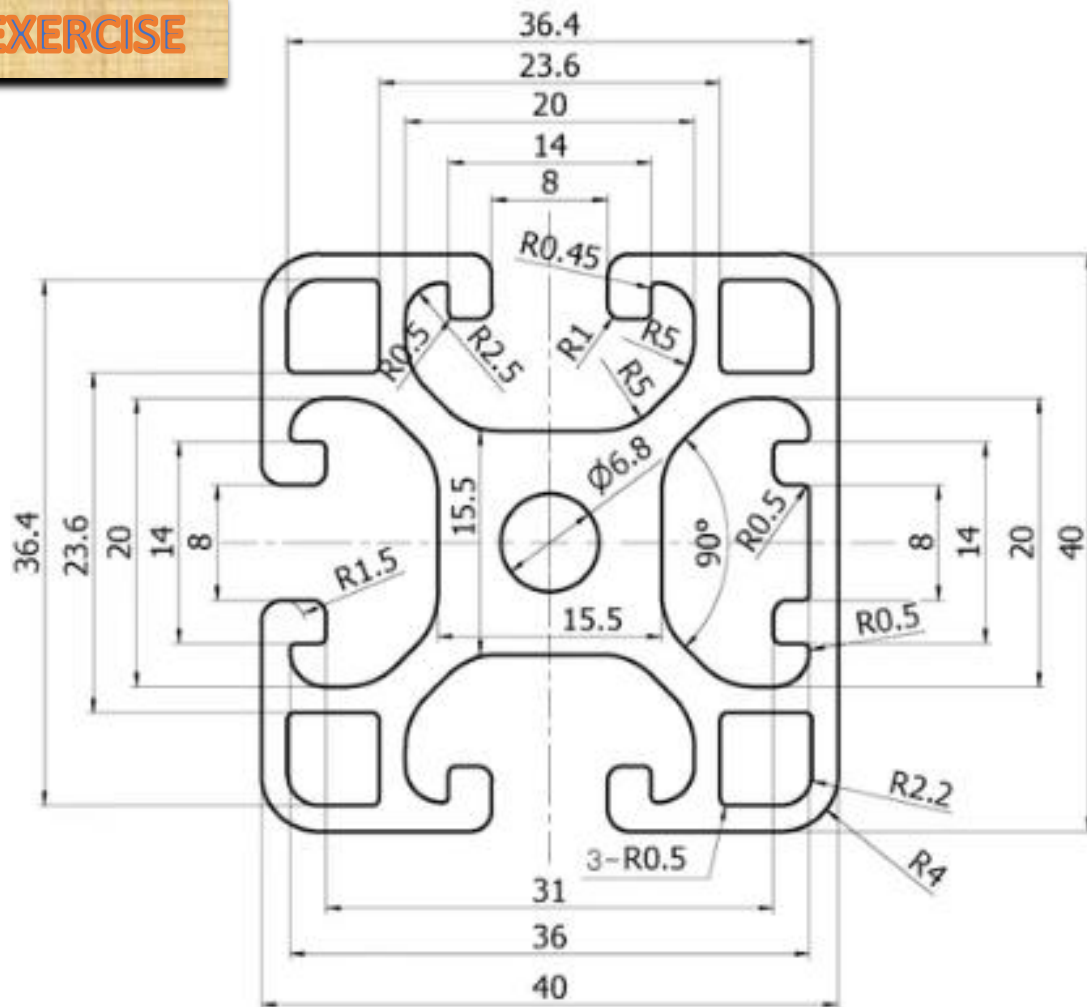
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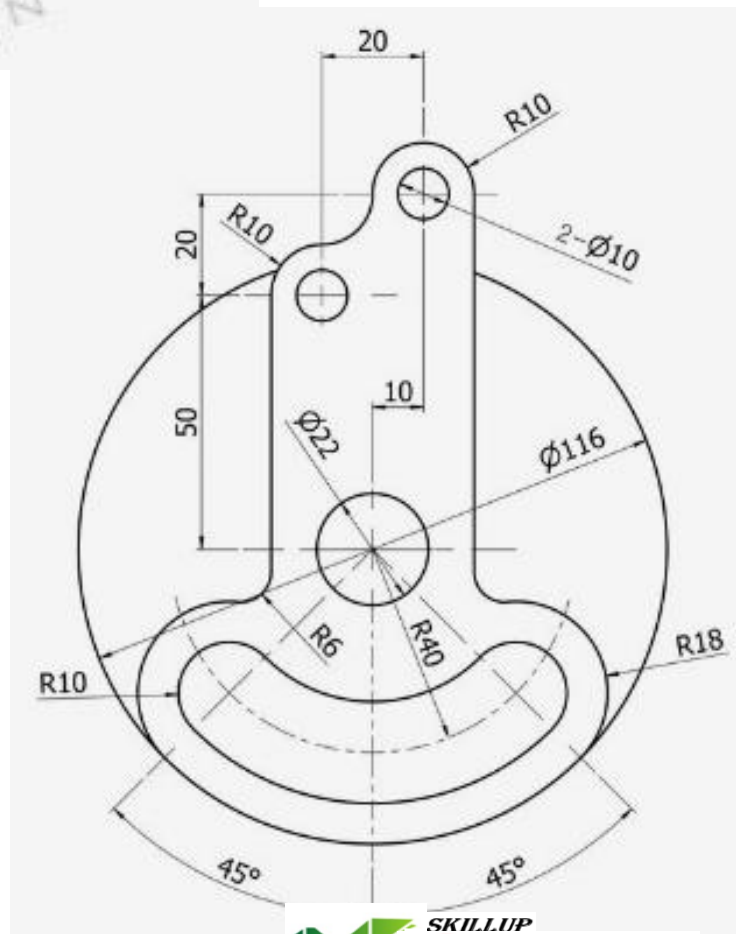
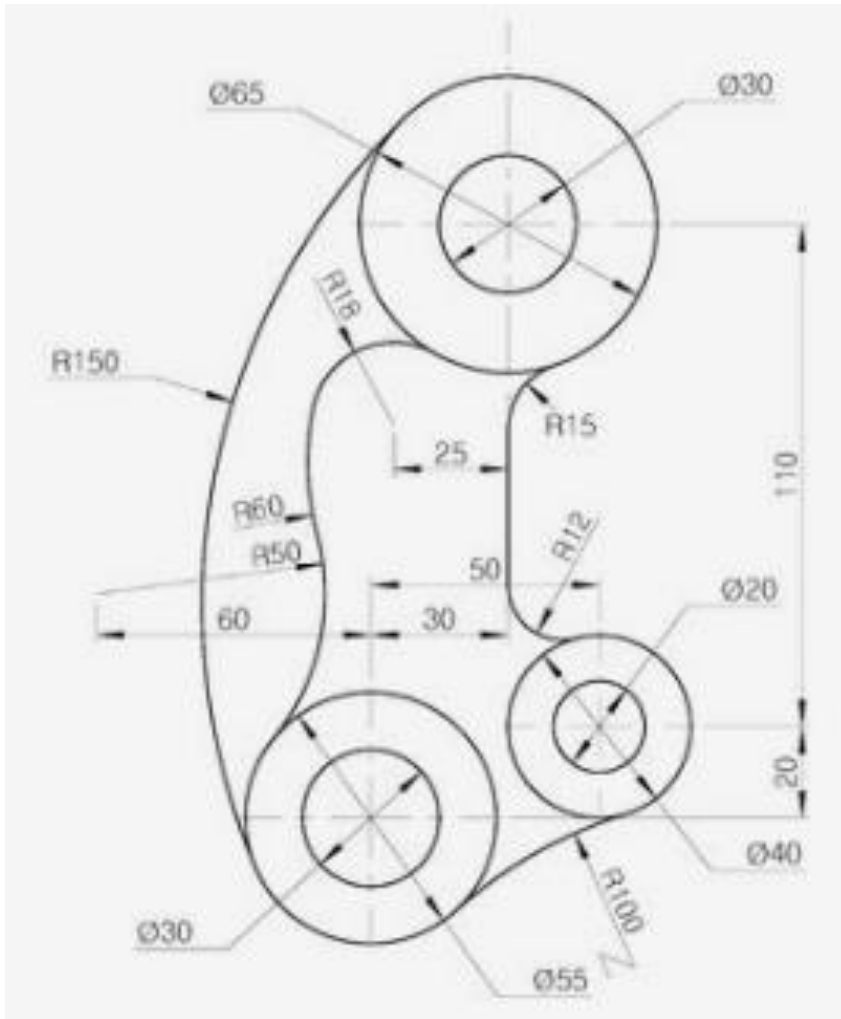
2D EXERCISE



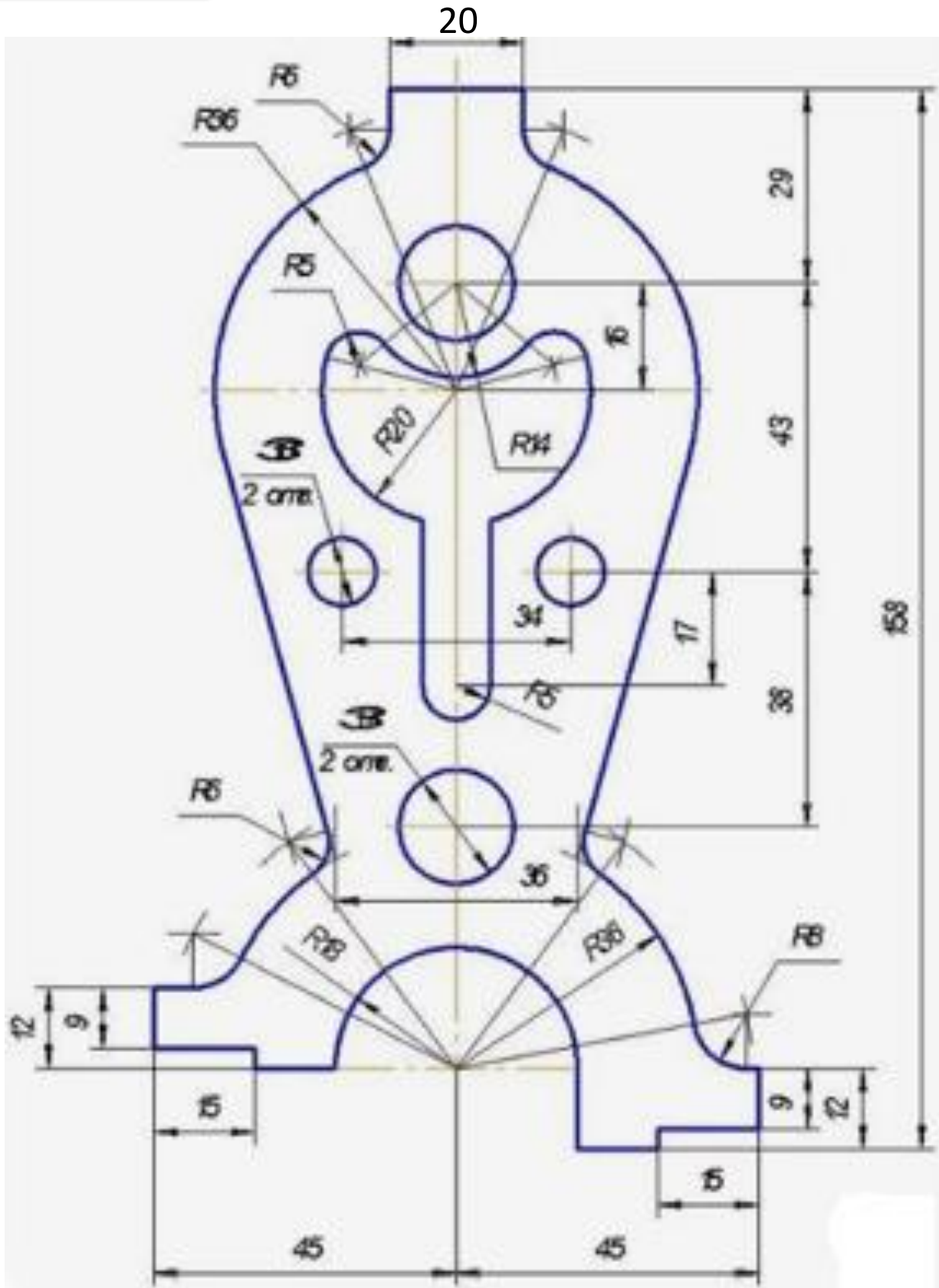
2D EXERCISE



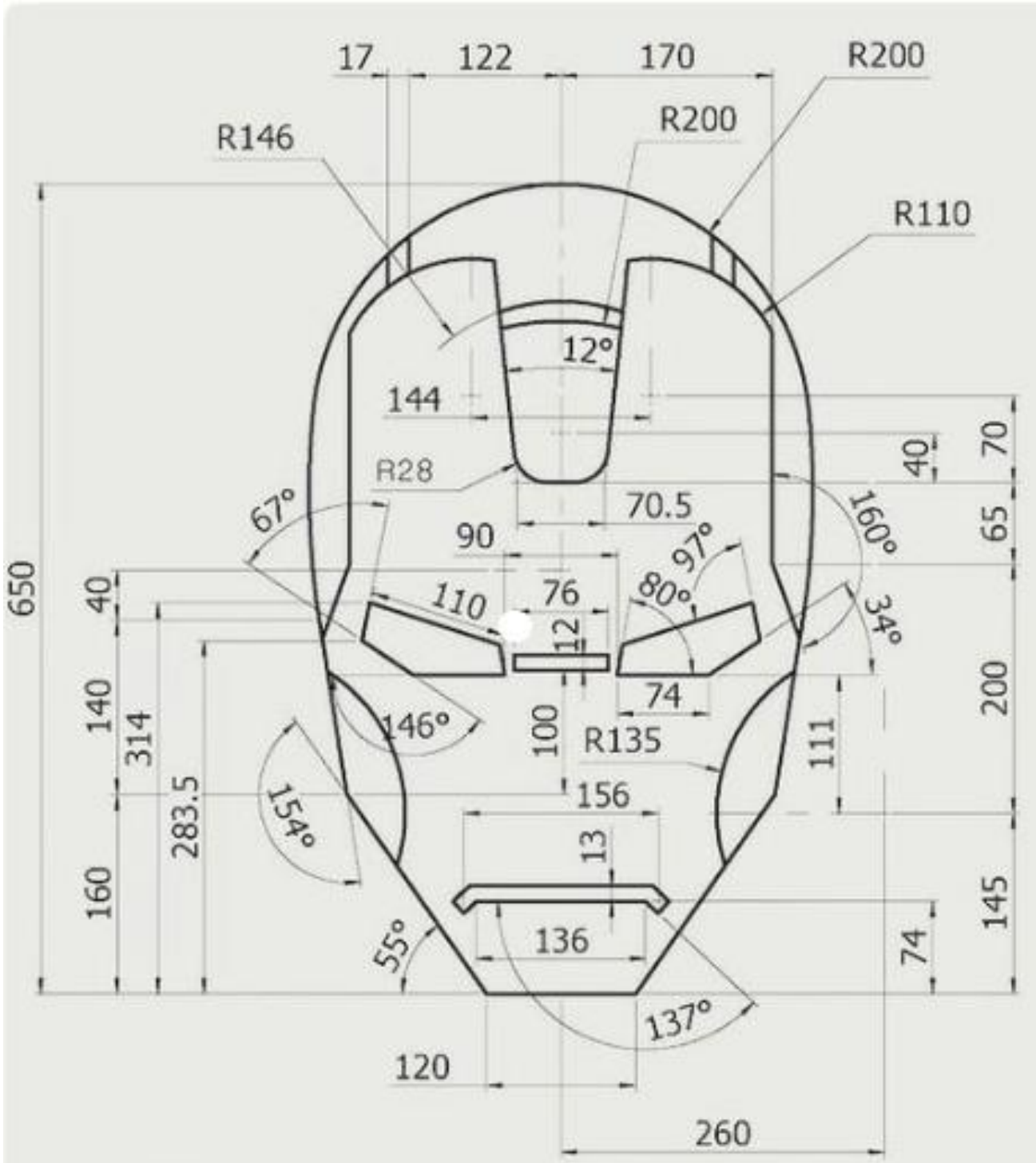
2D EXERCISE



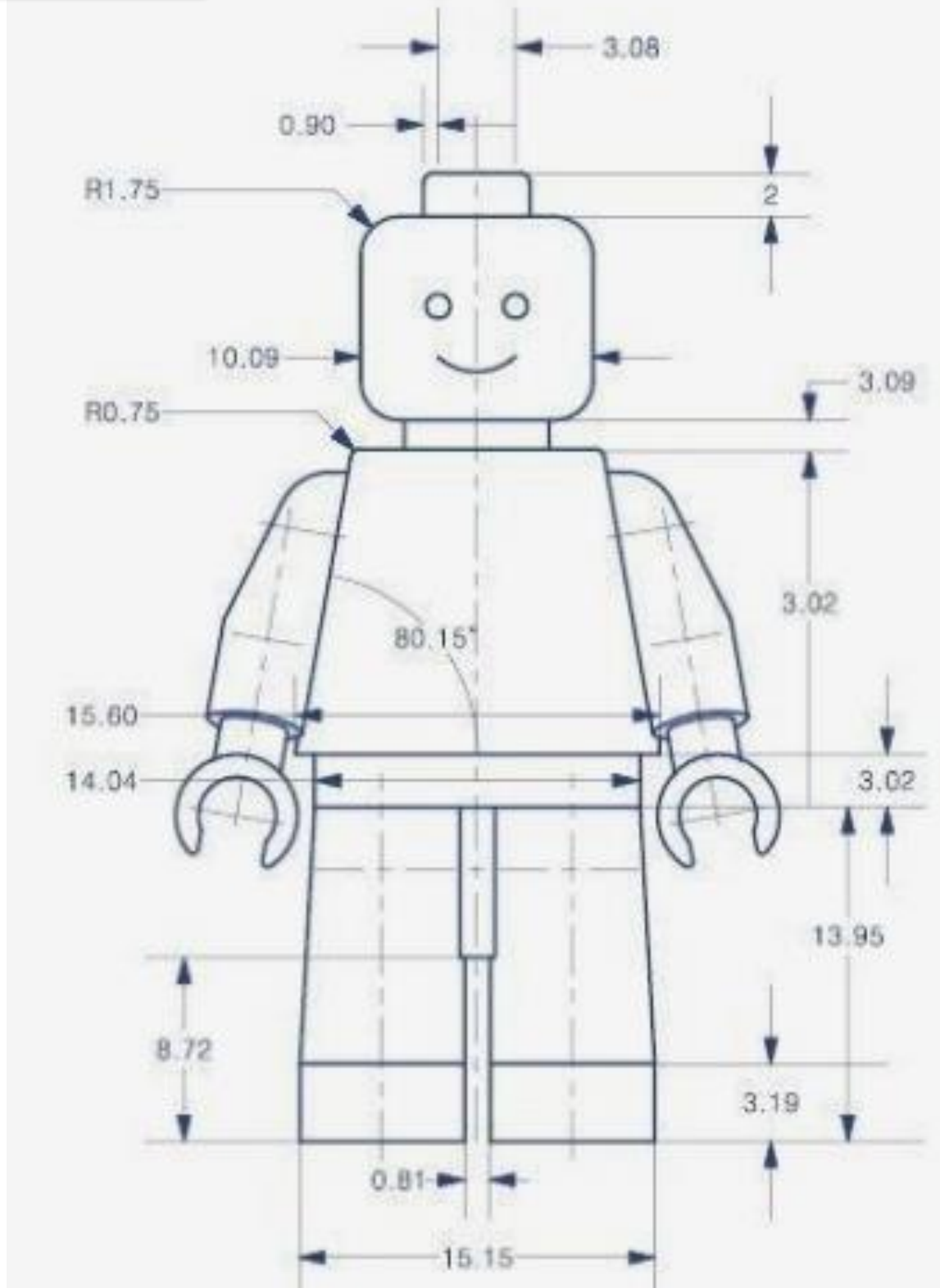
2D EXERCISE



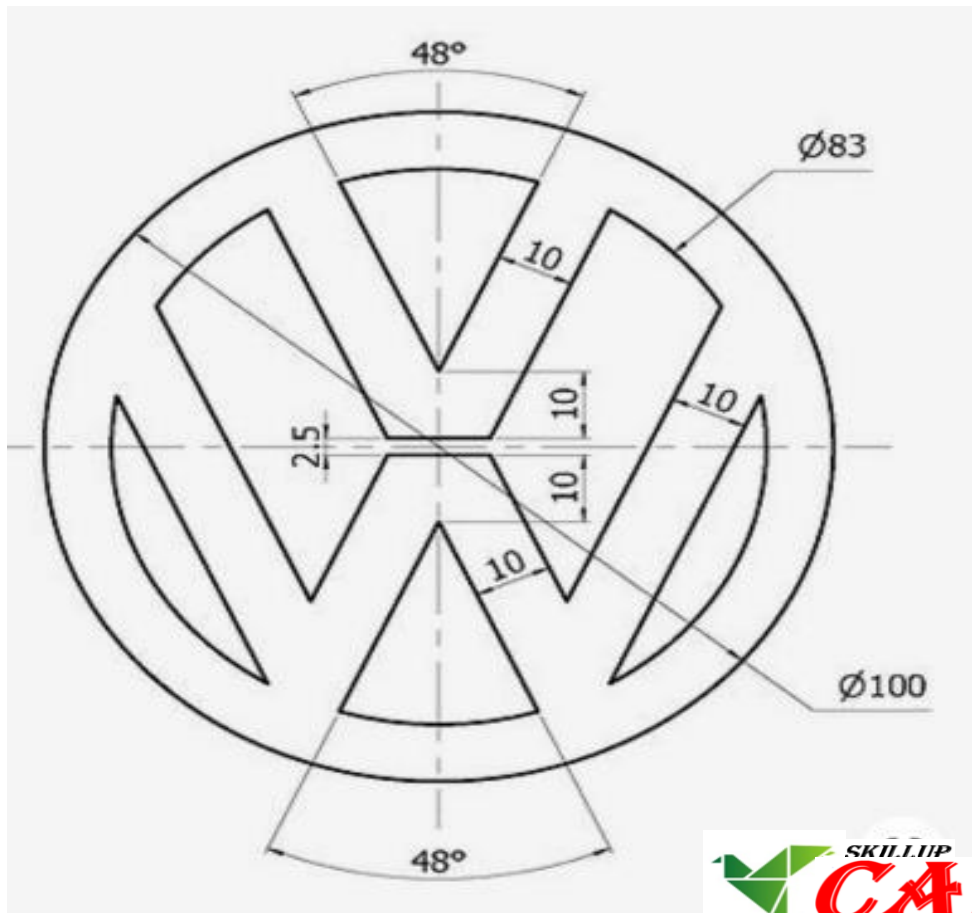
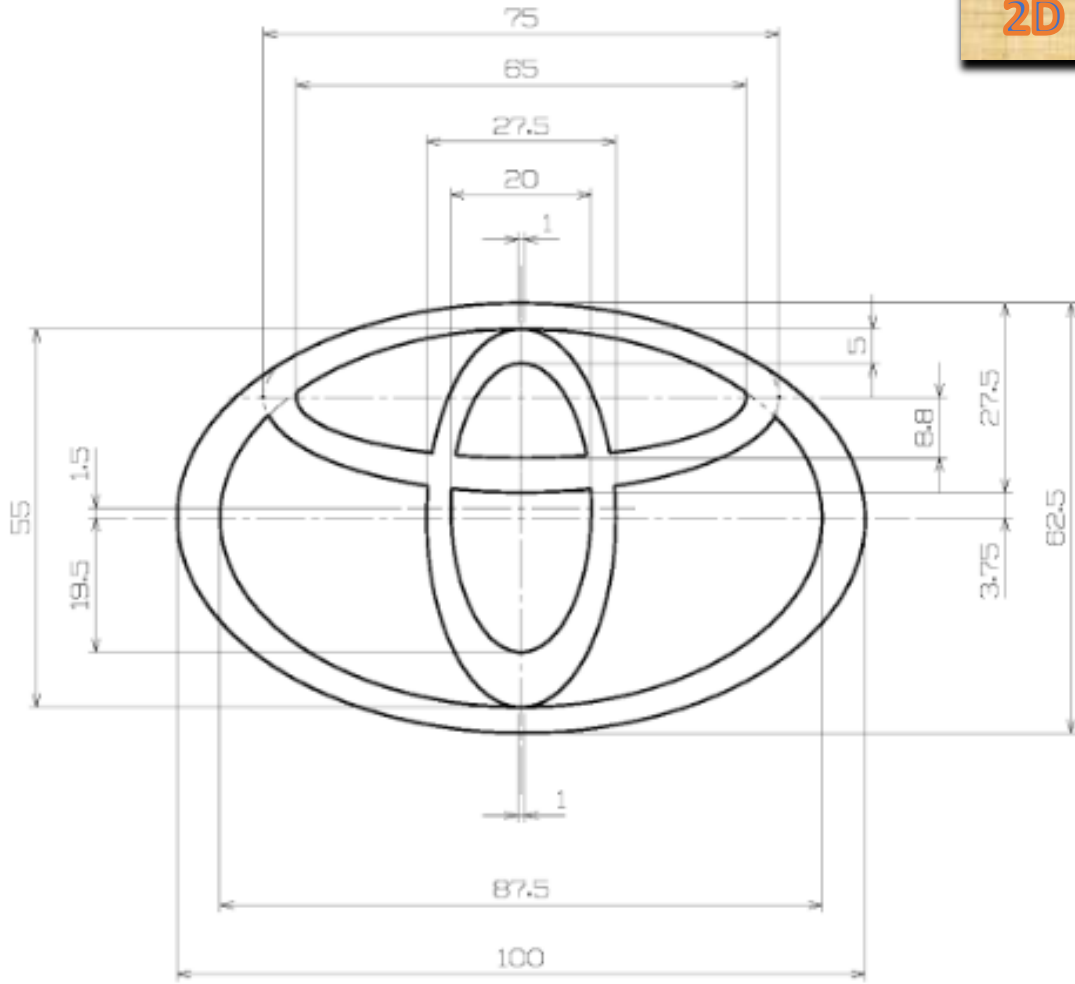
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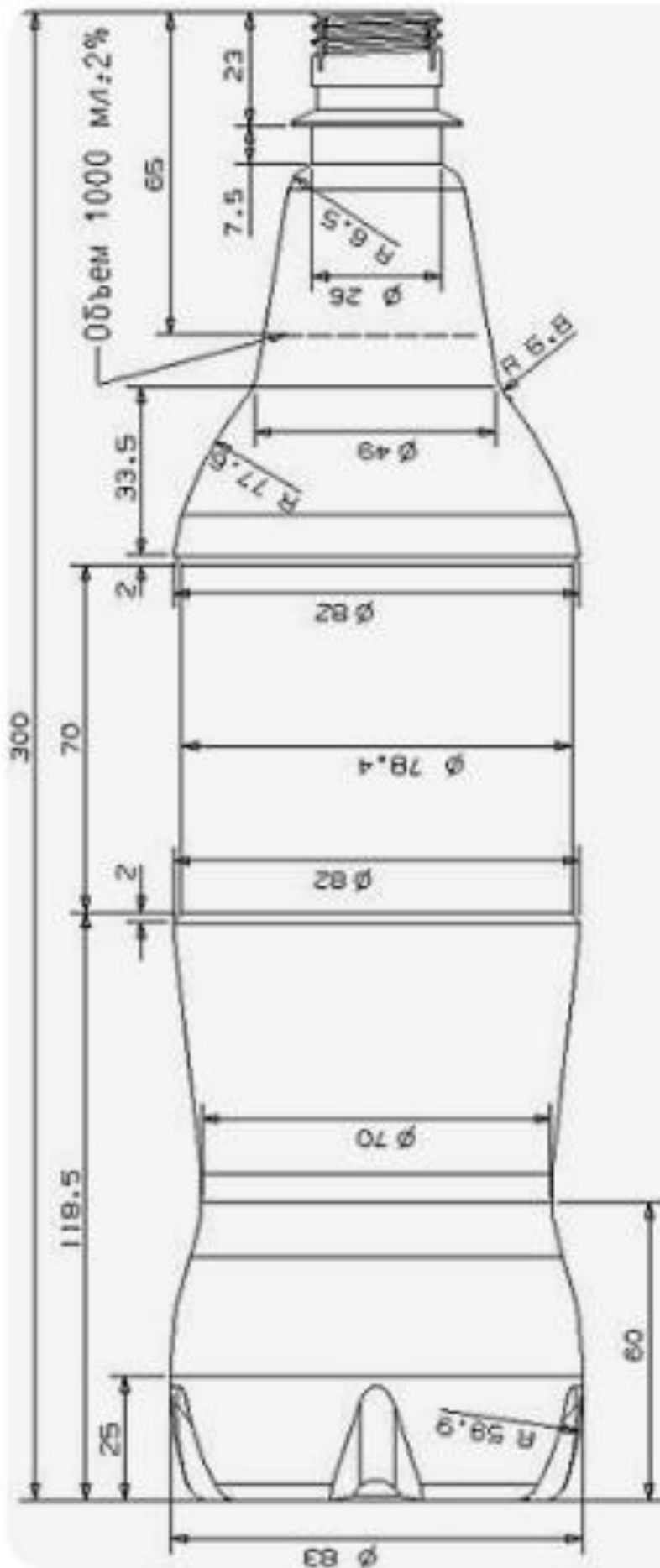
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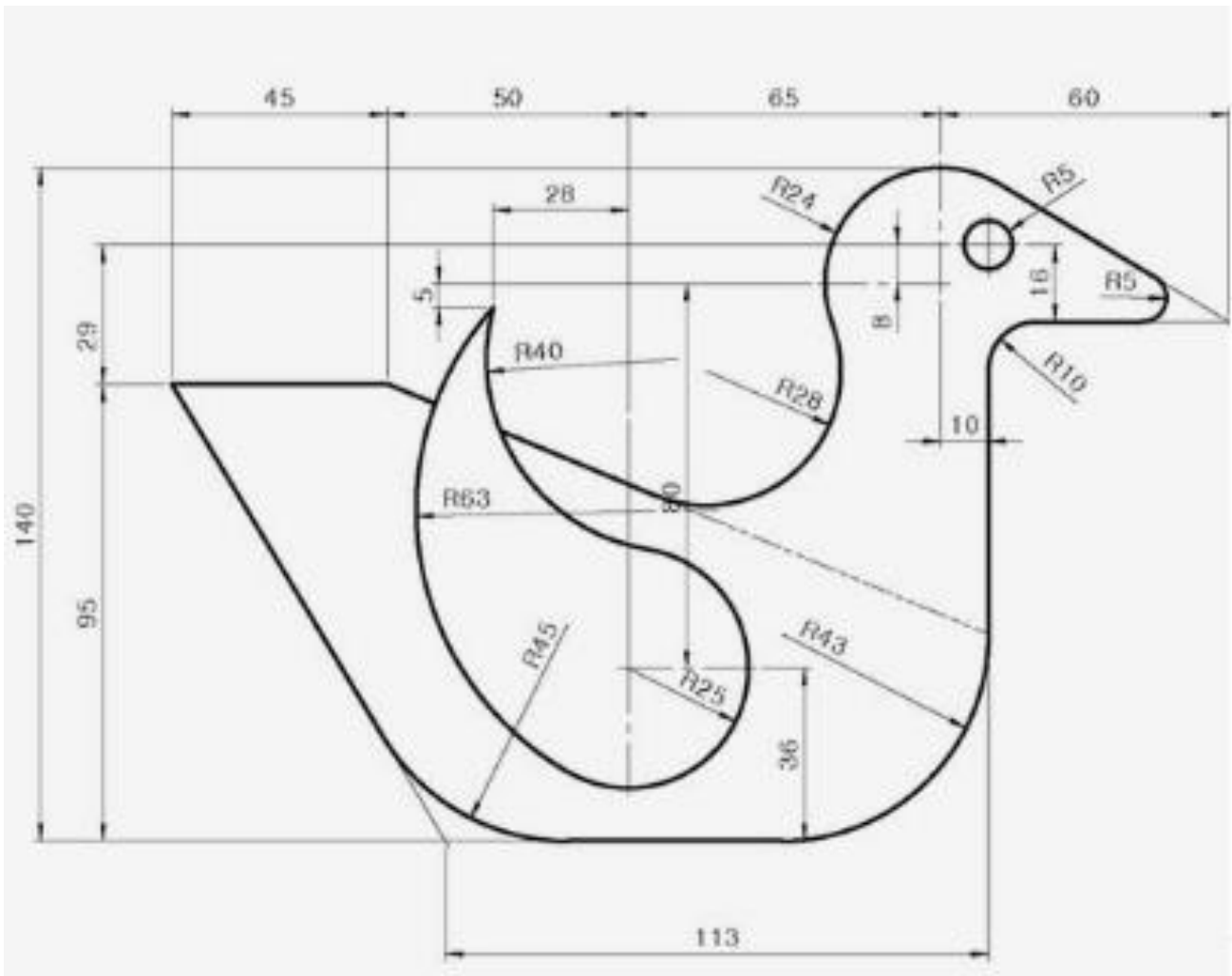
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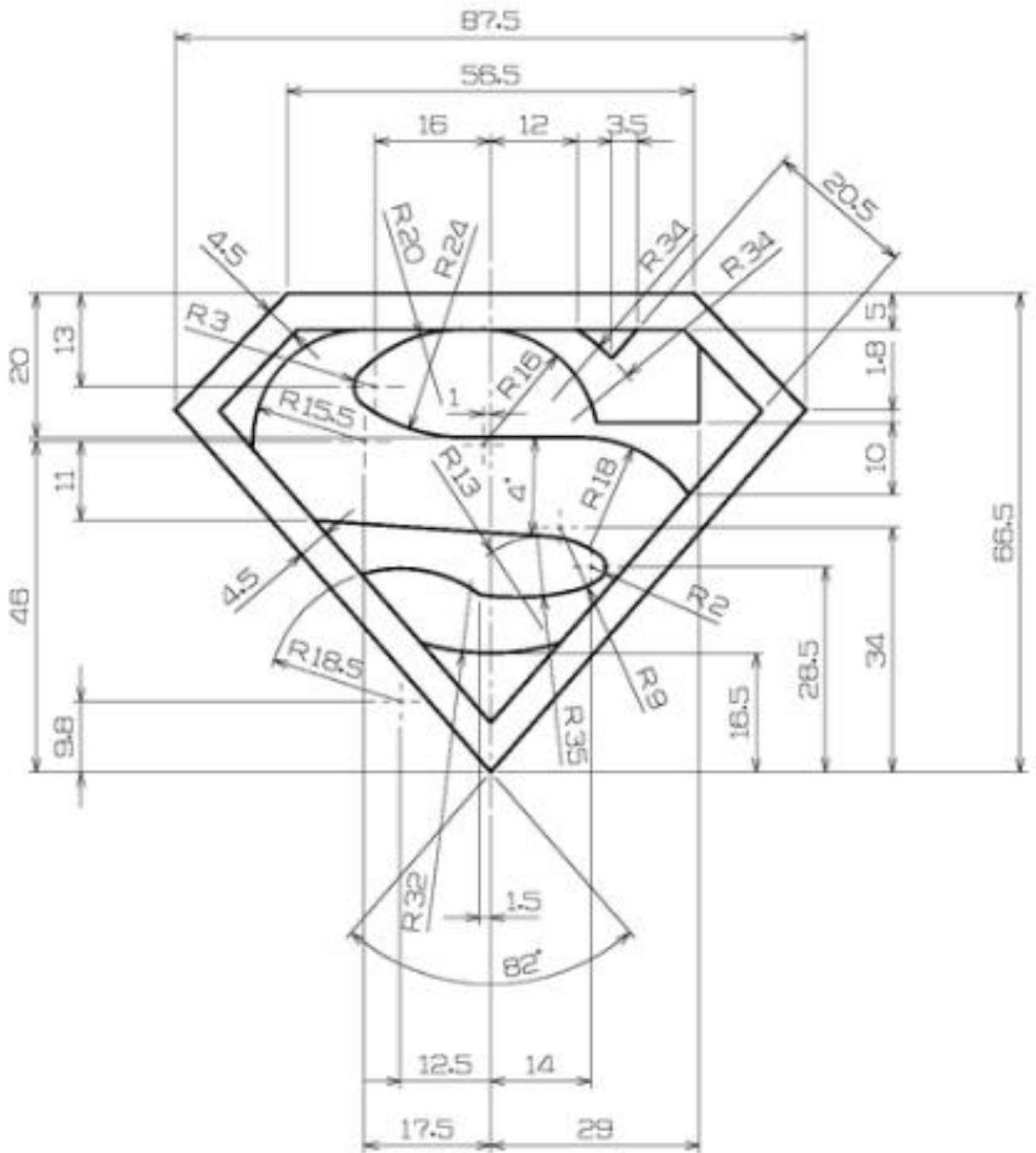
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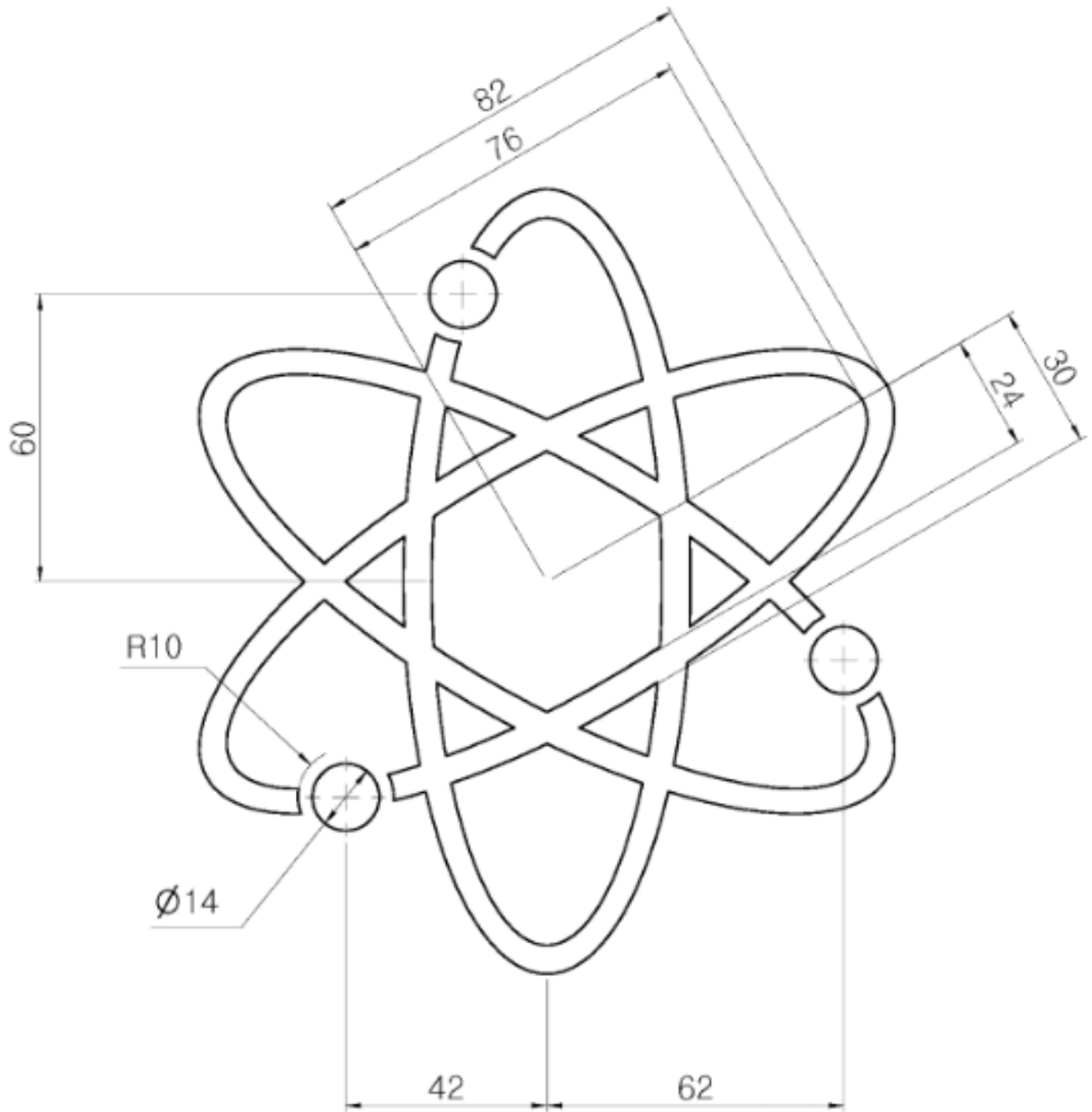
2D EXERCISE



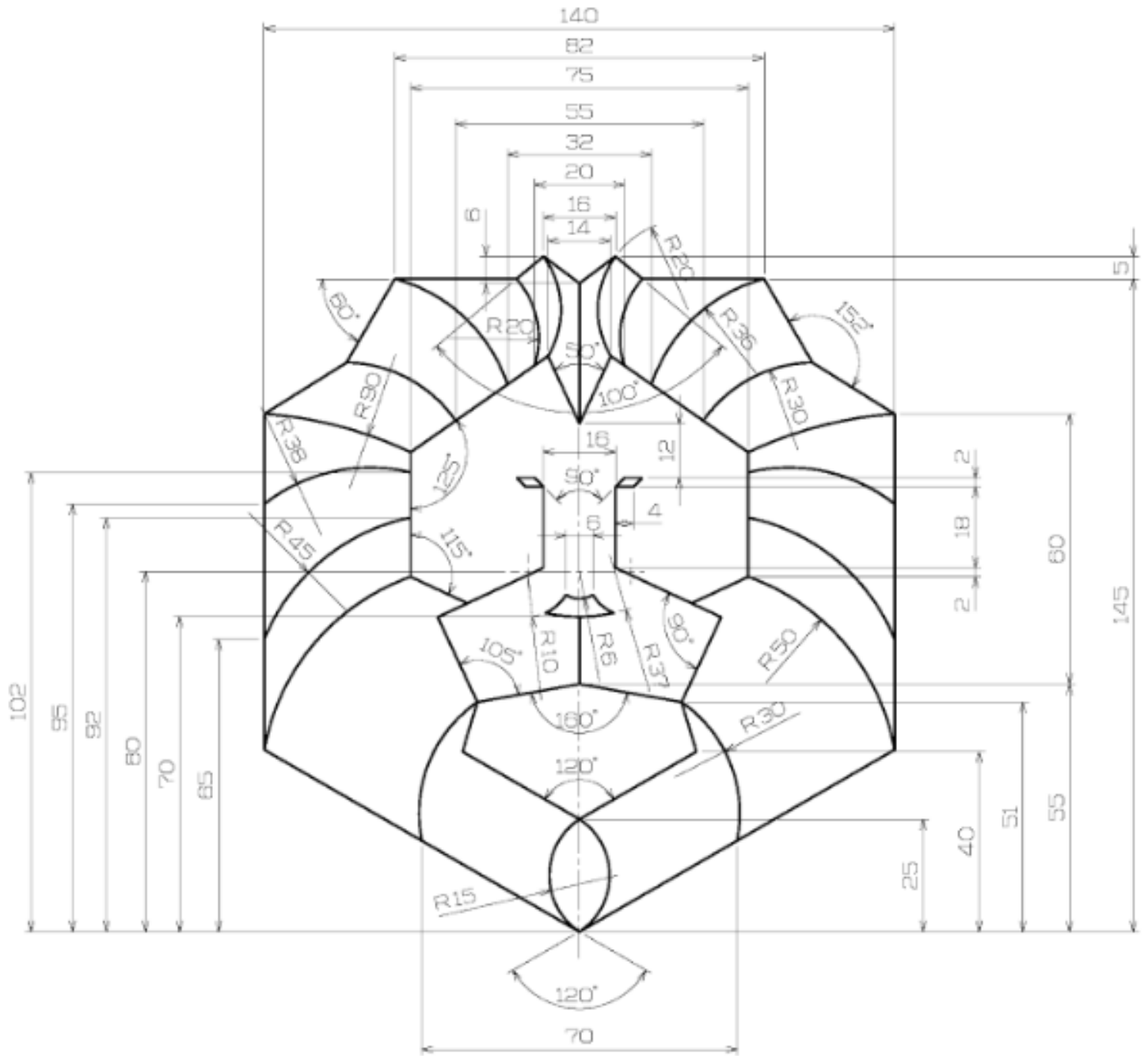
2D EXERCISE



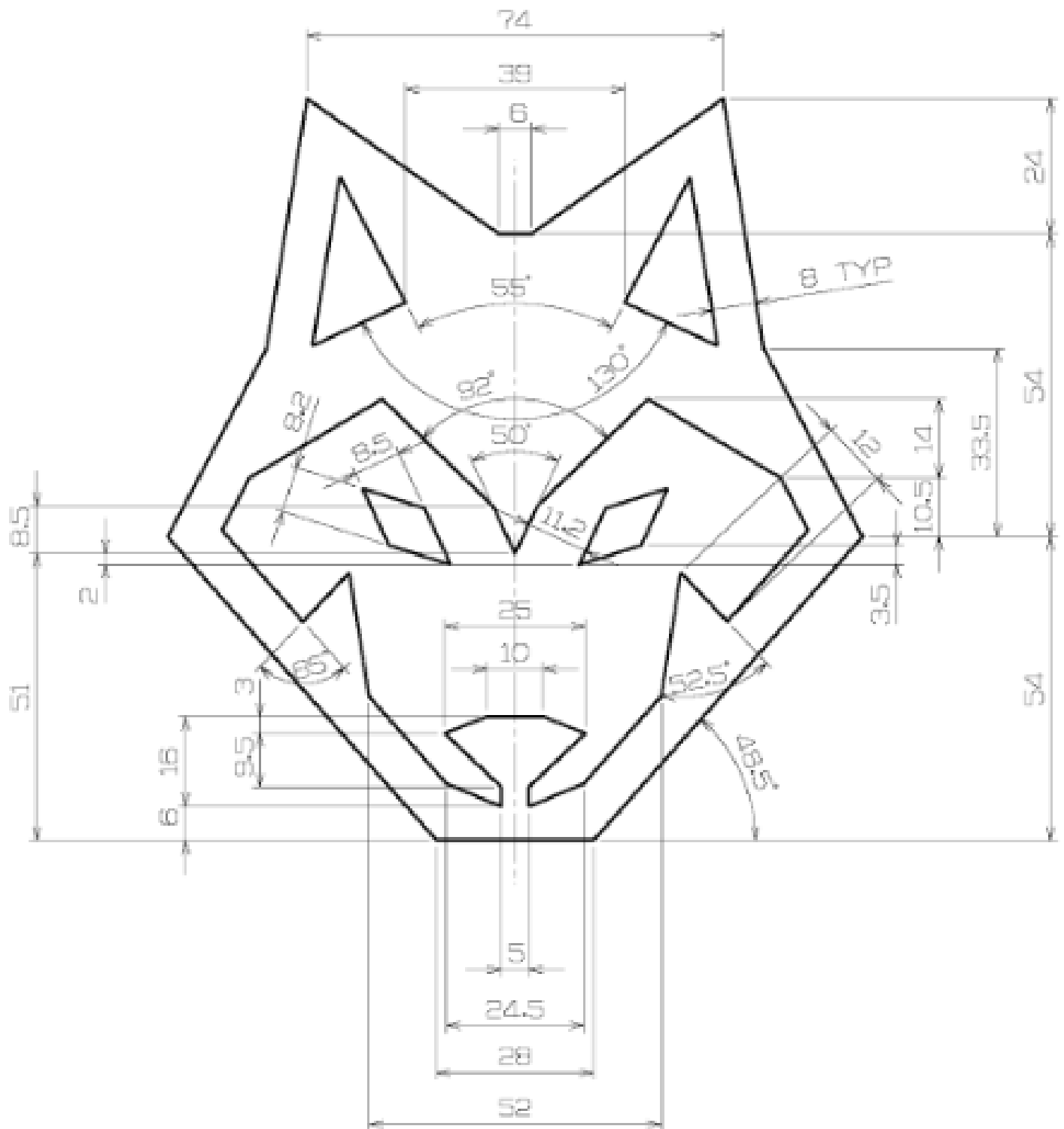
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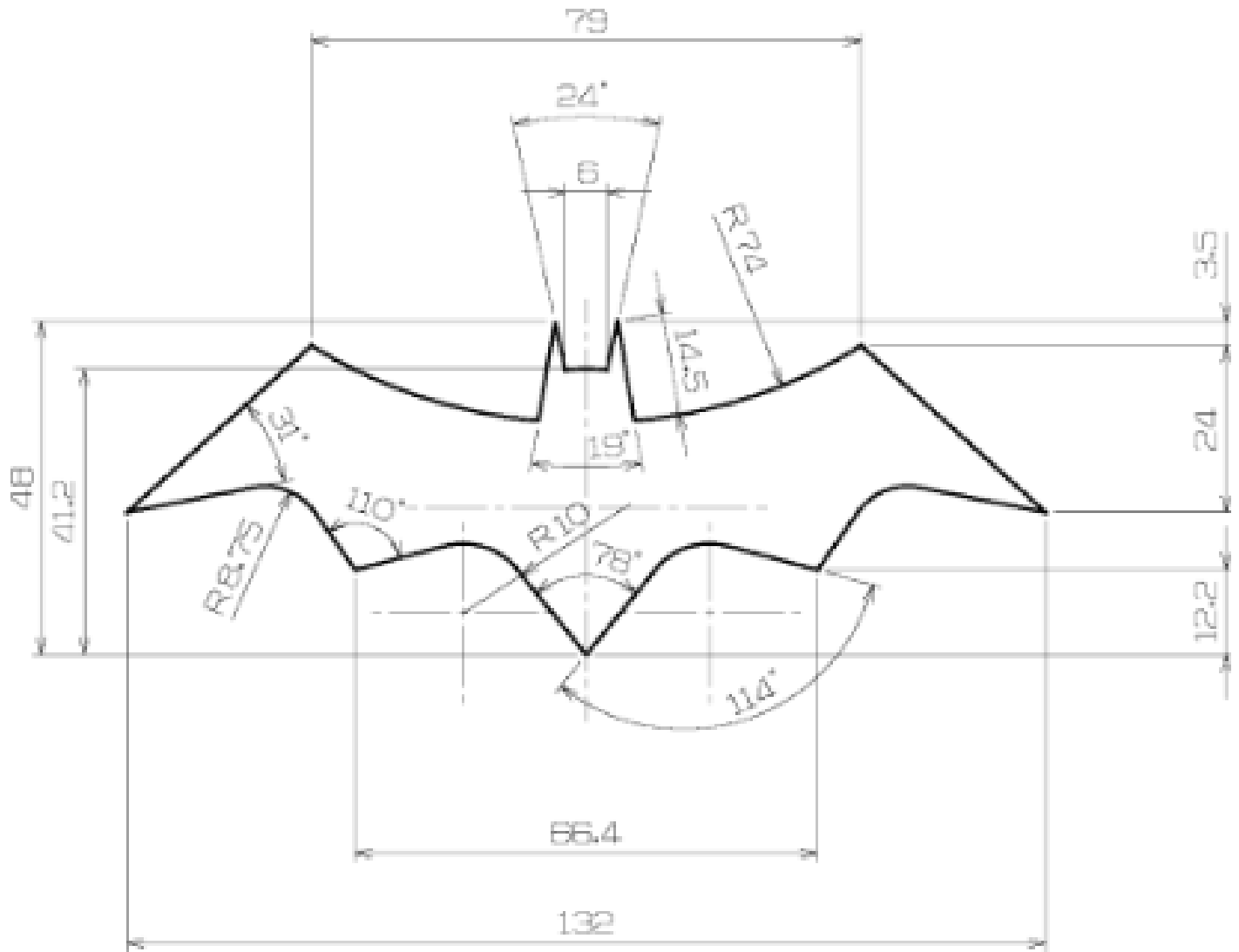
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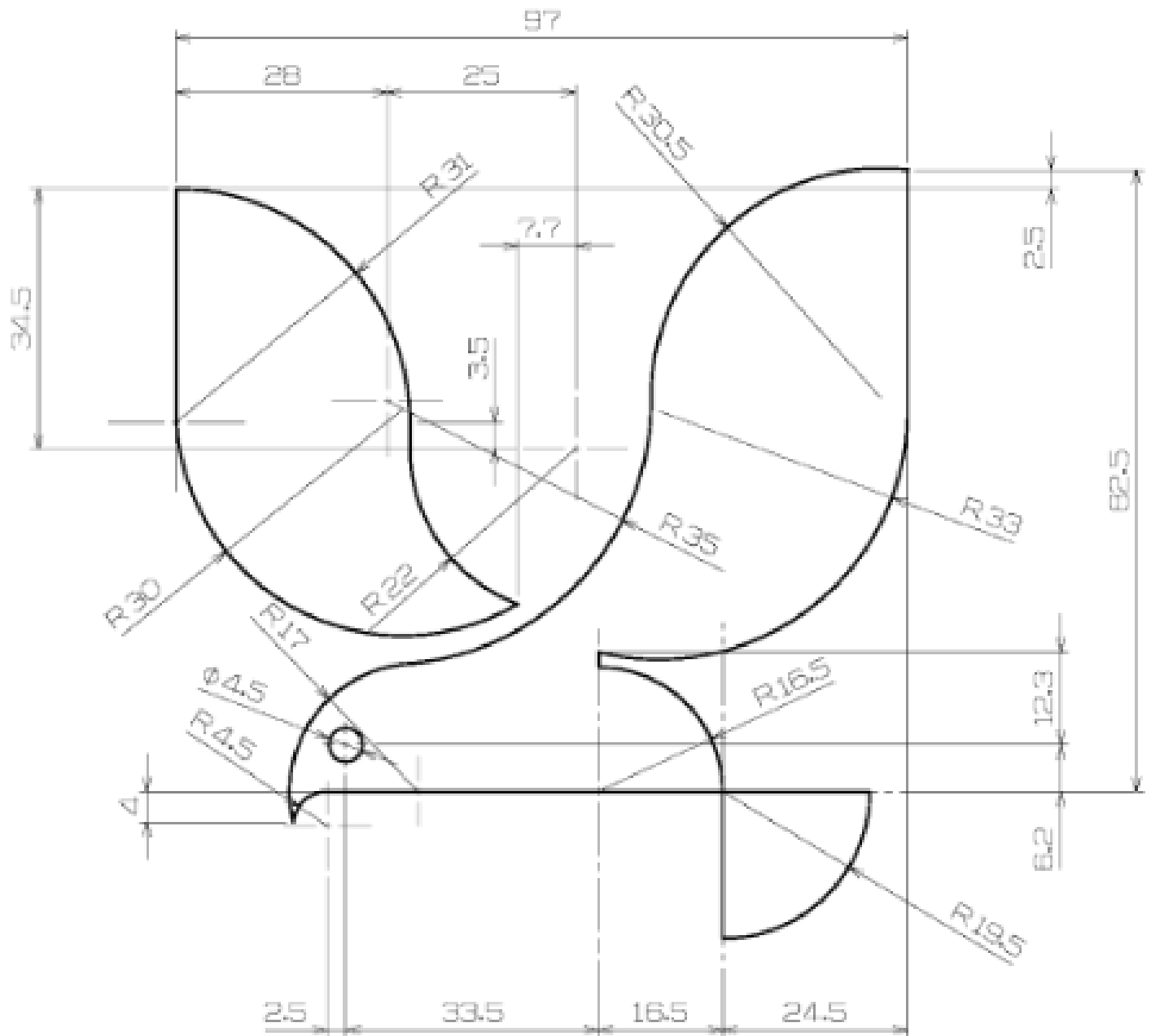
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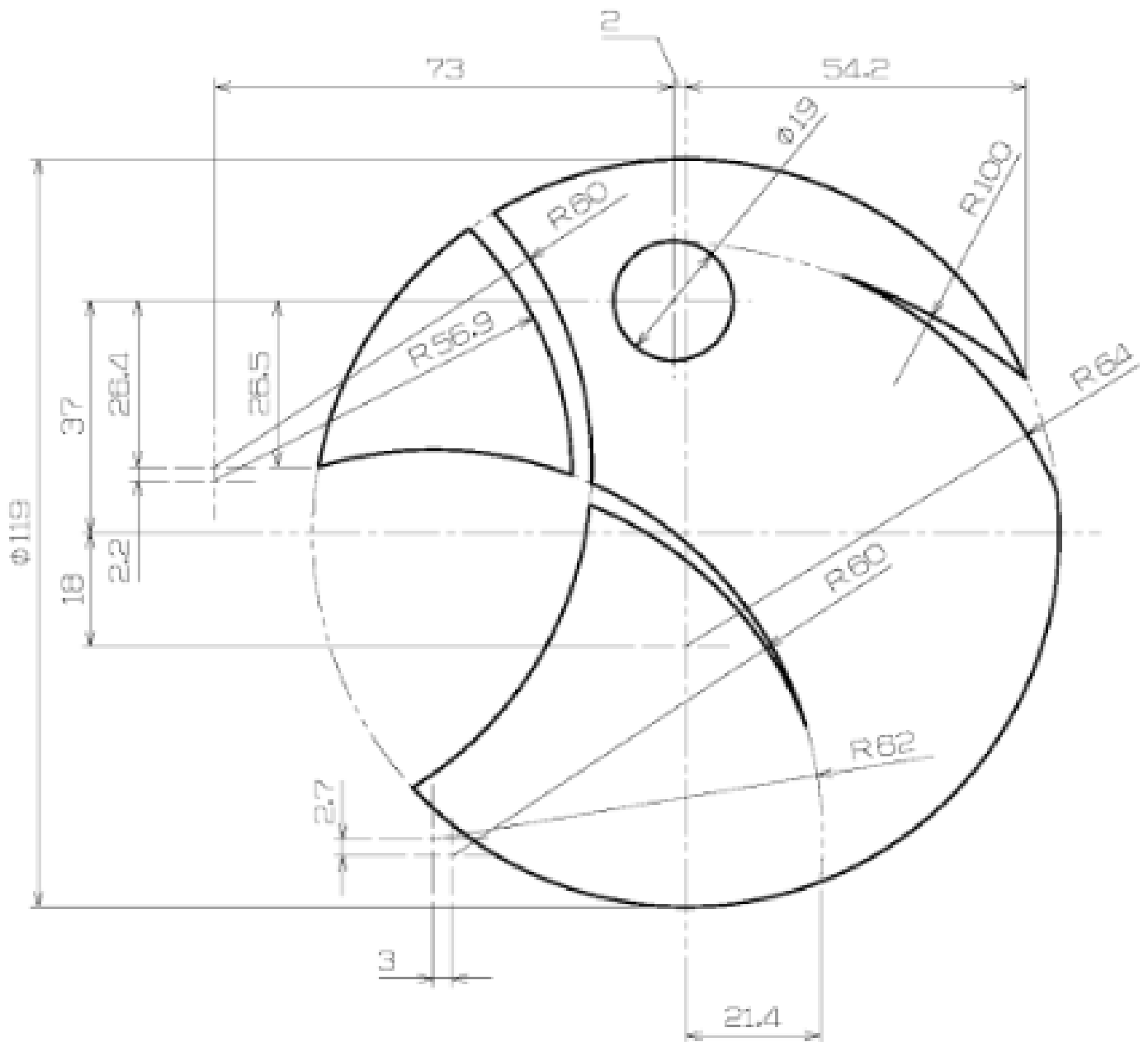
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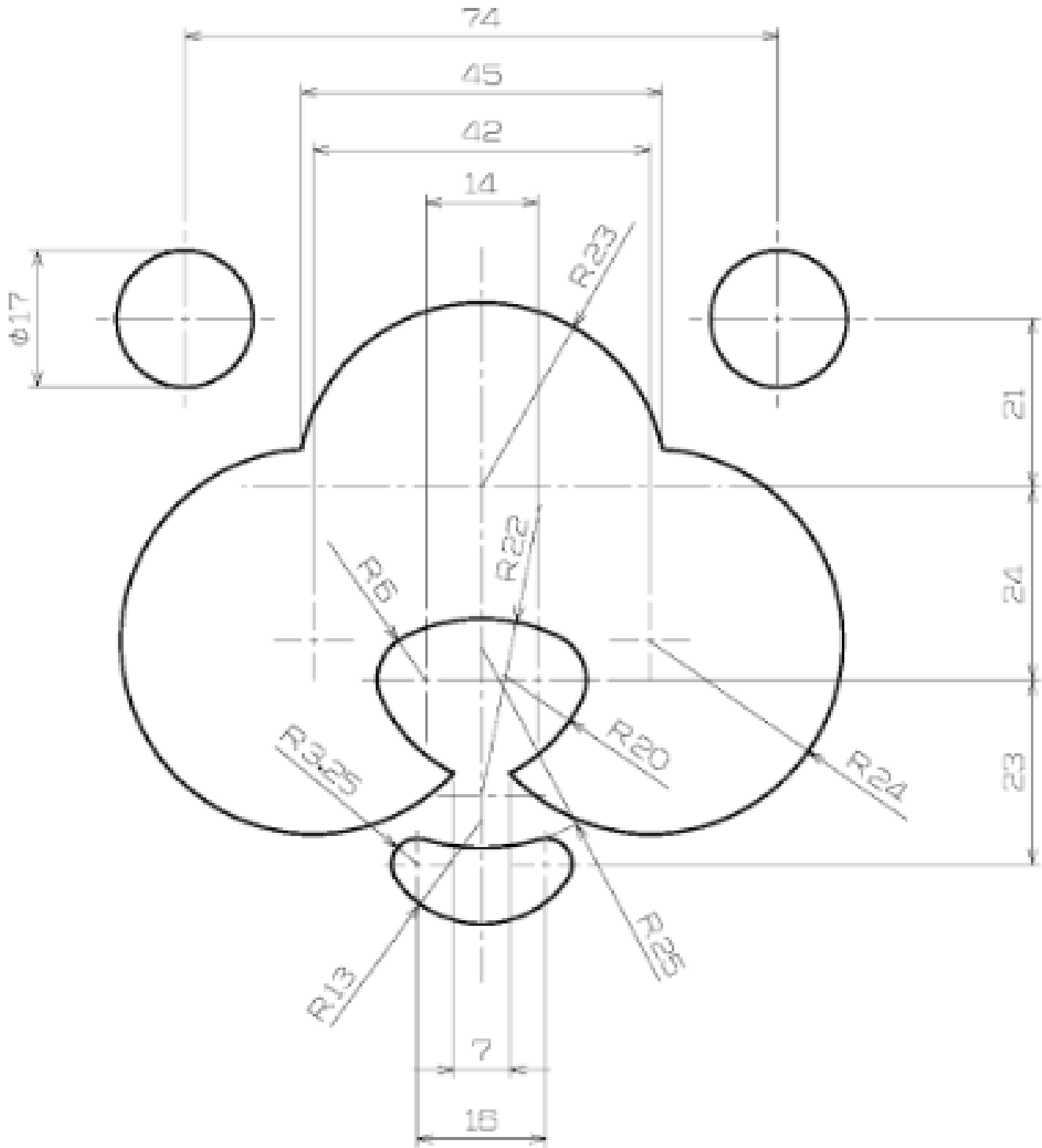
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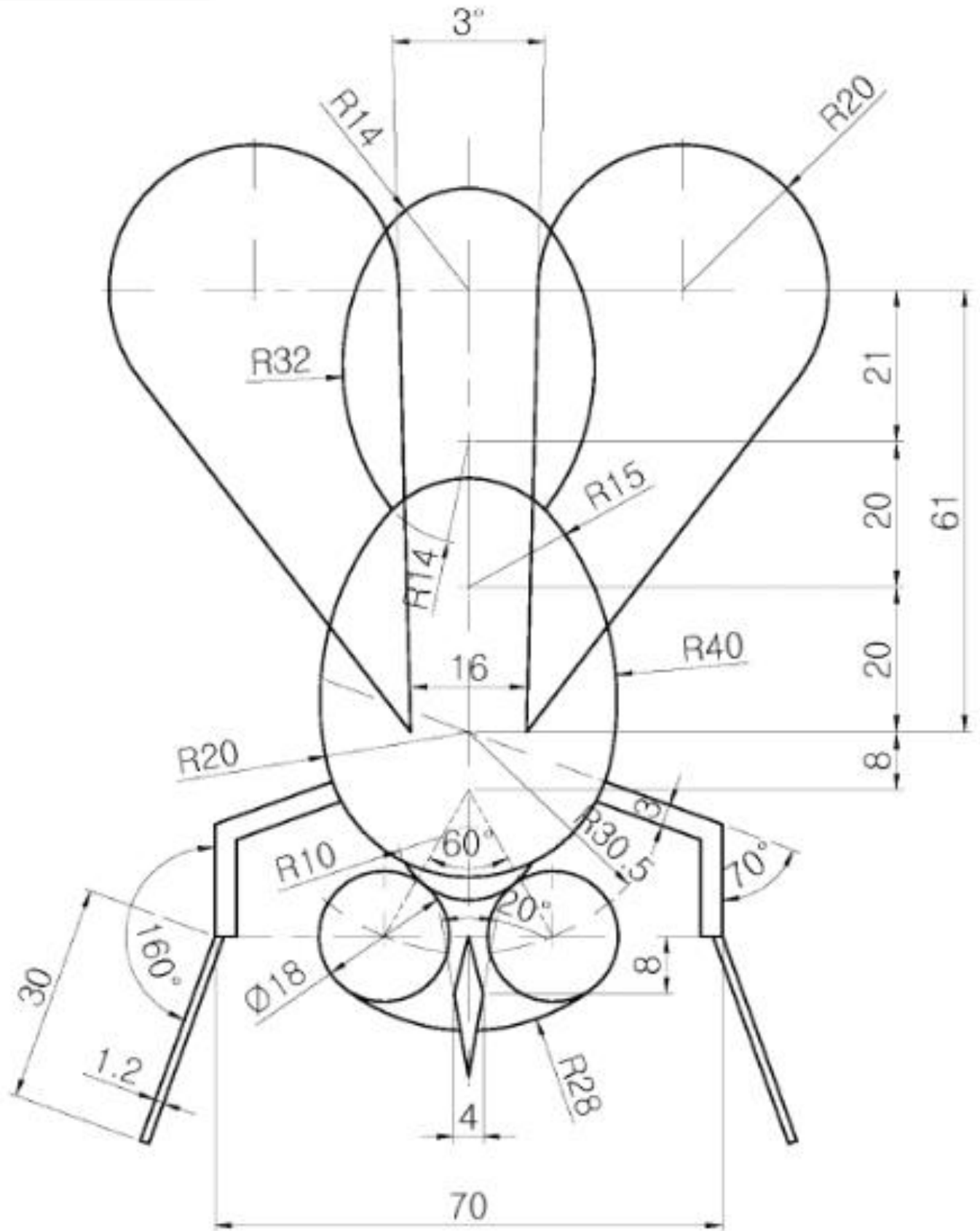
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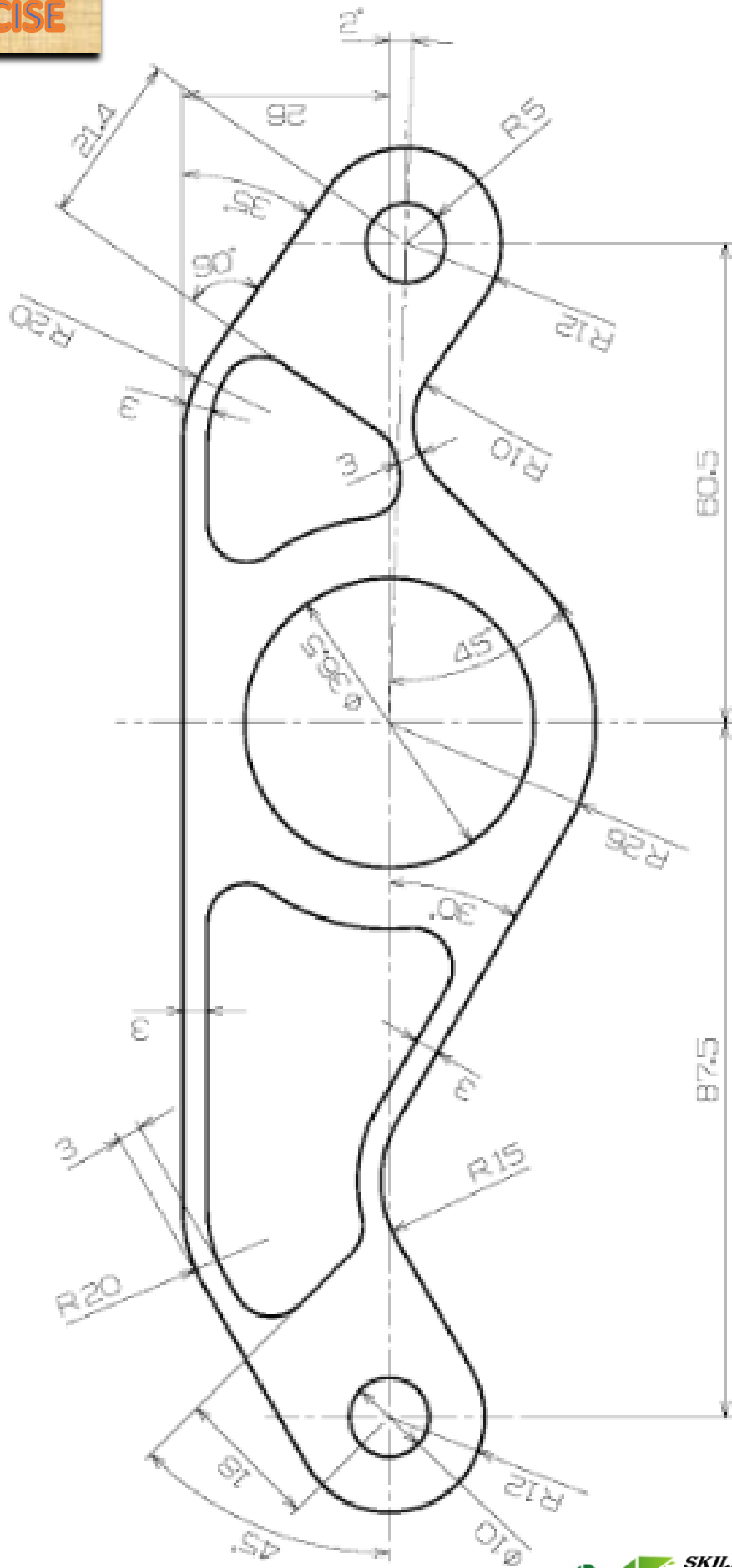
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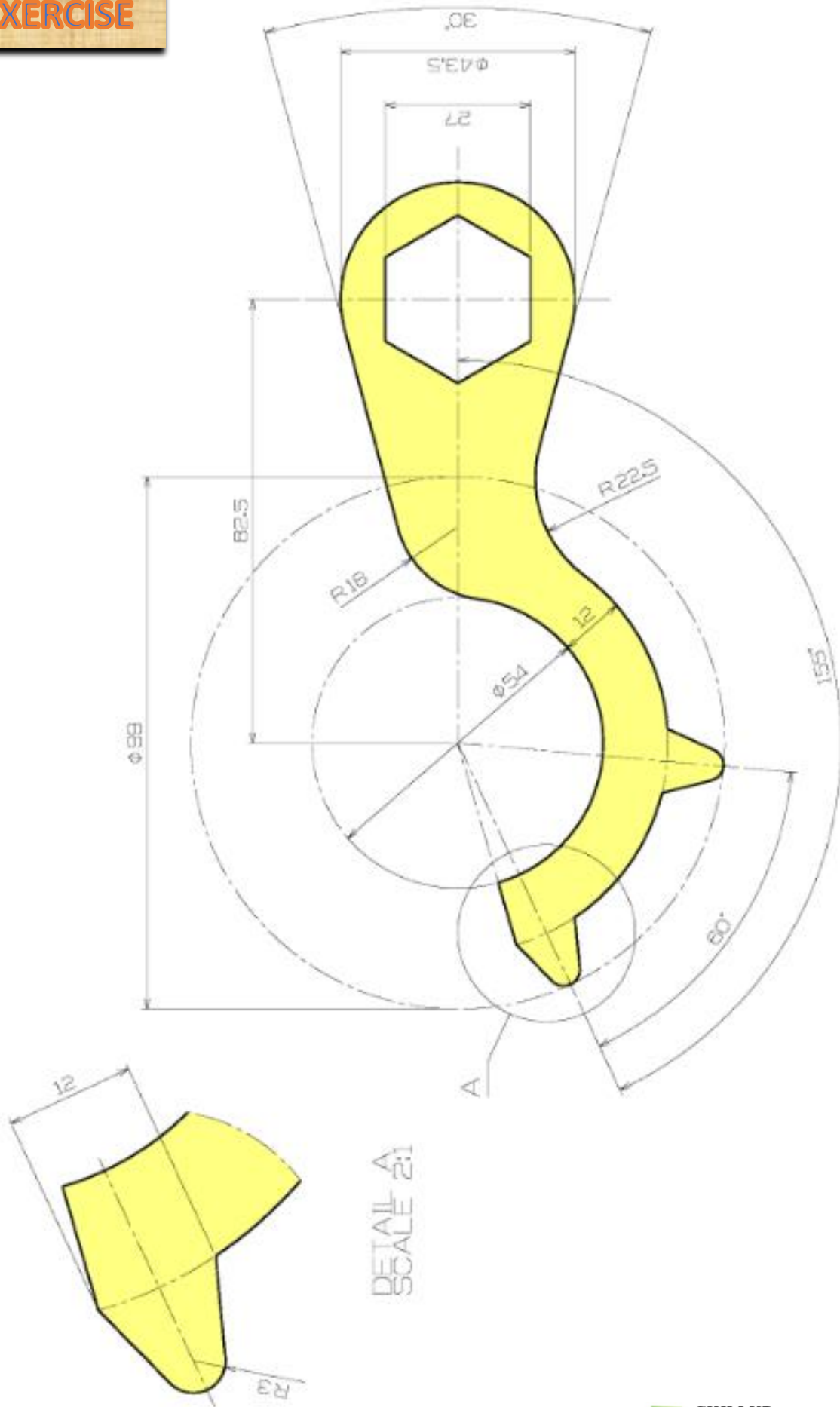
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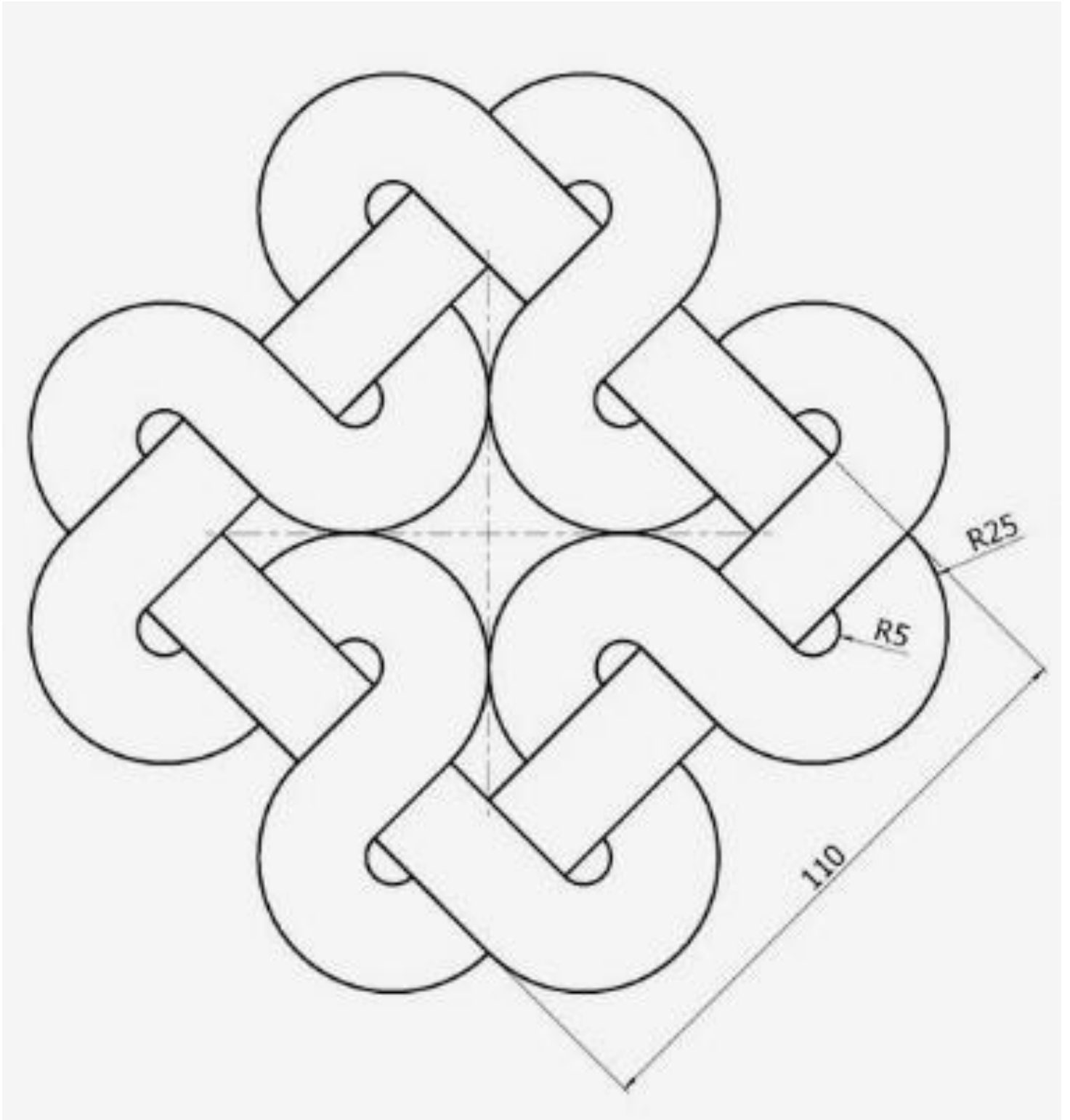
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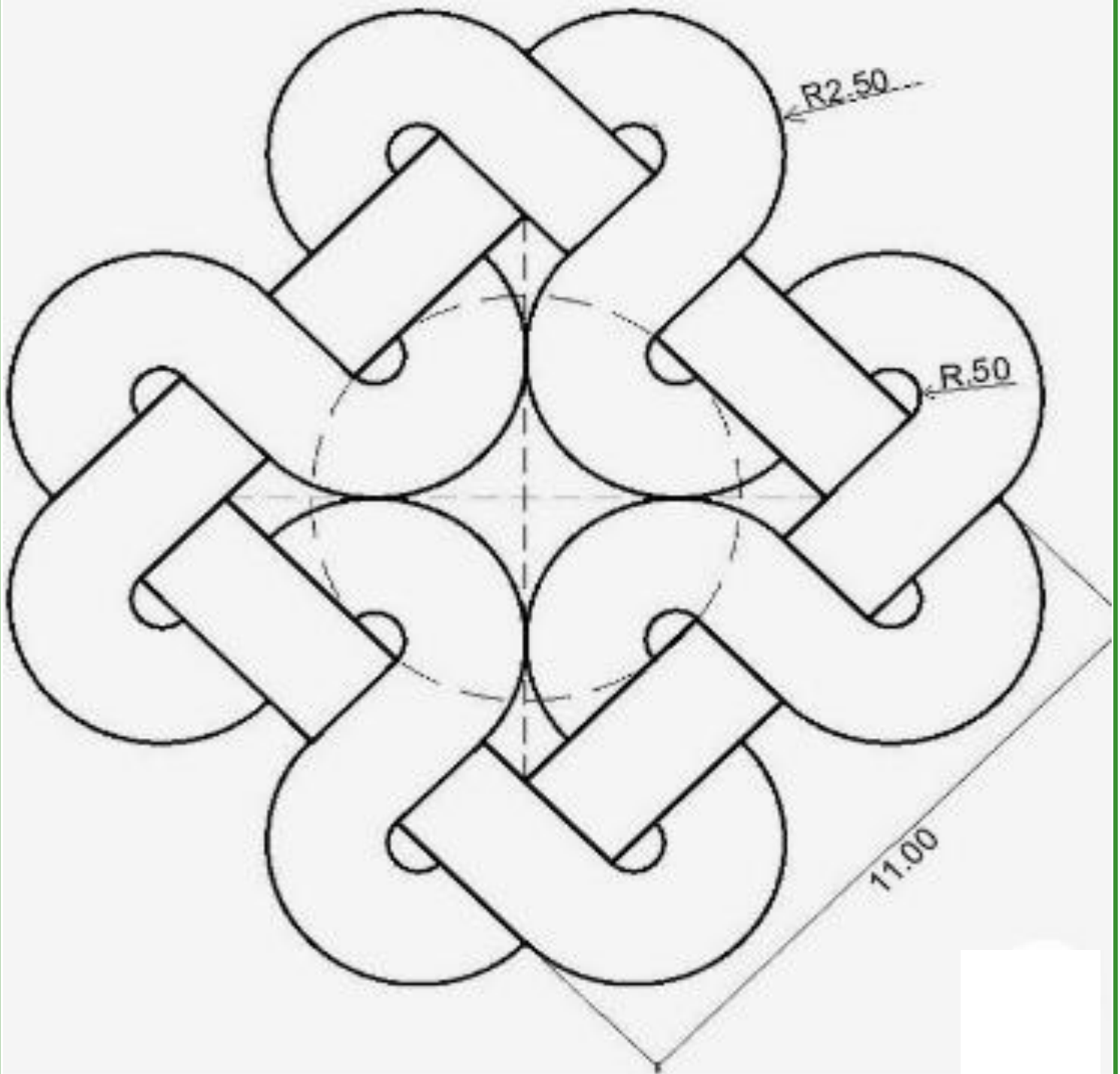
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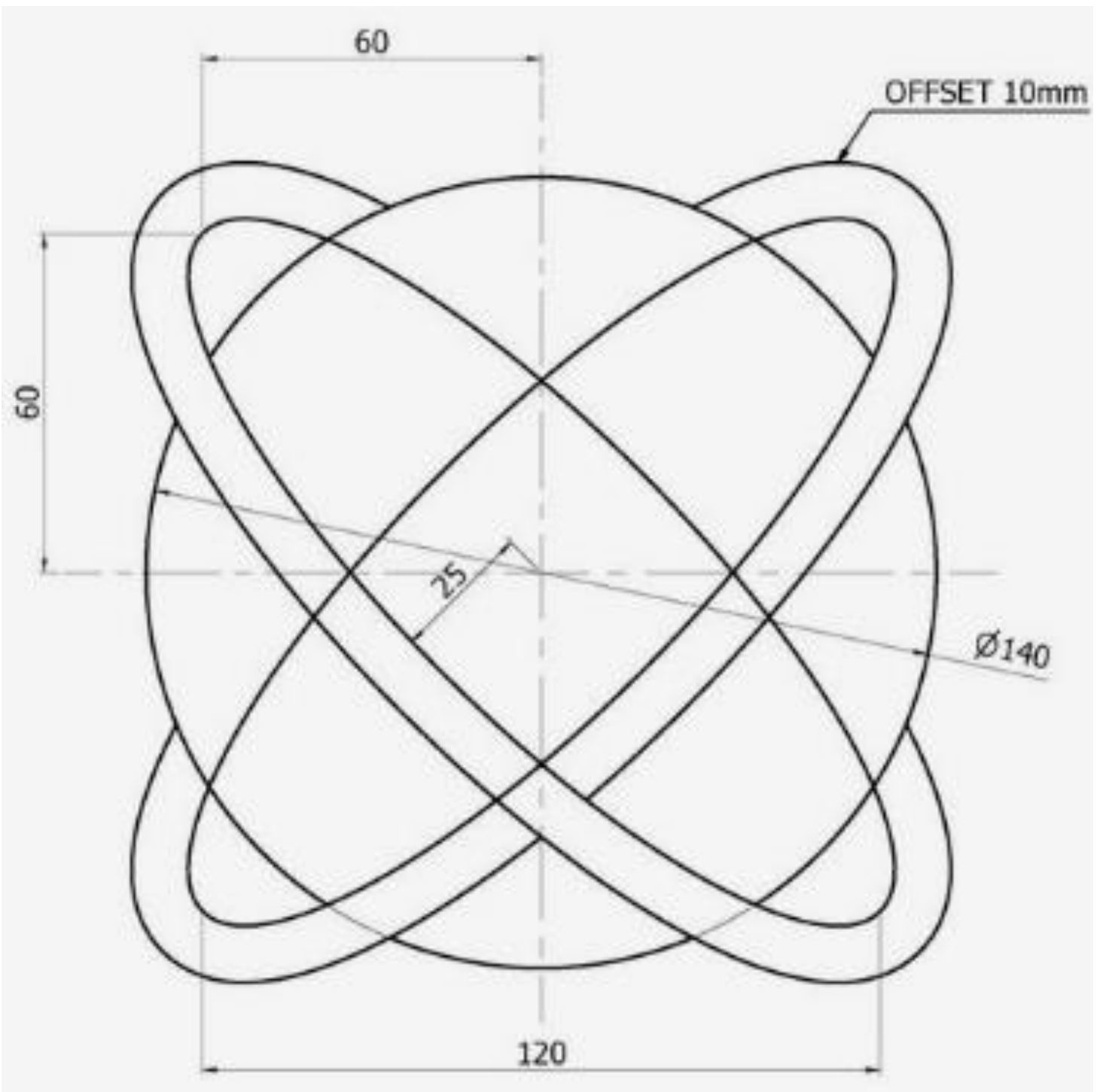
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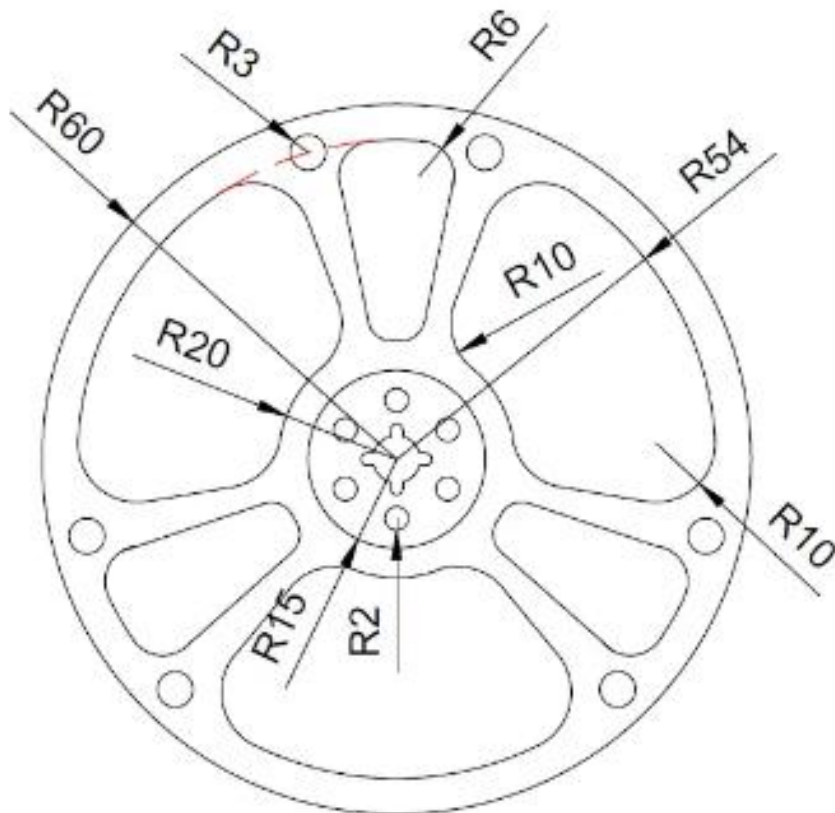
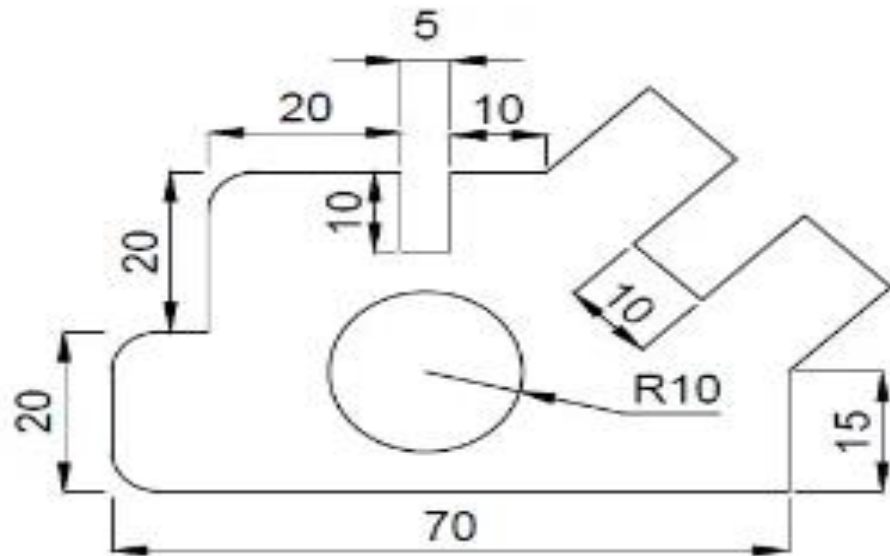
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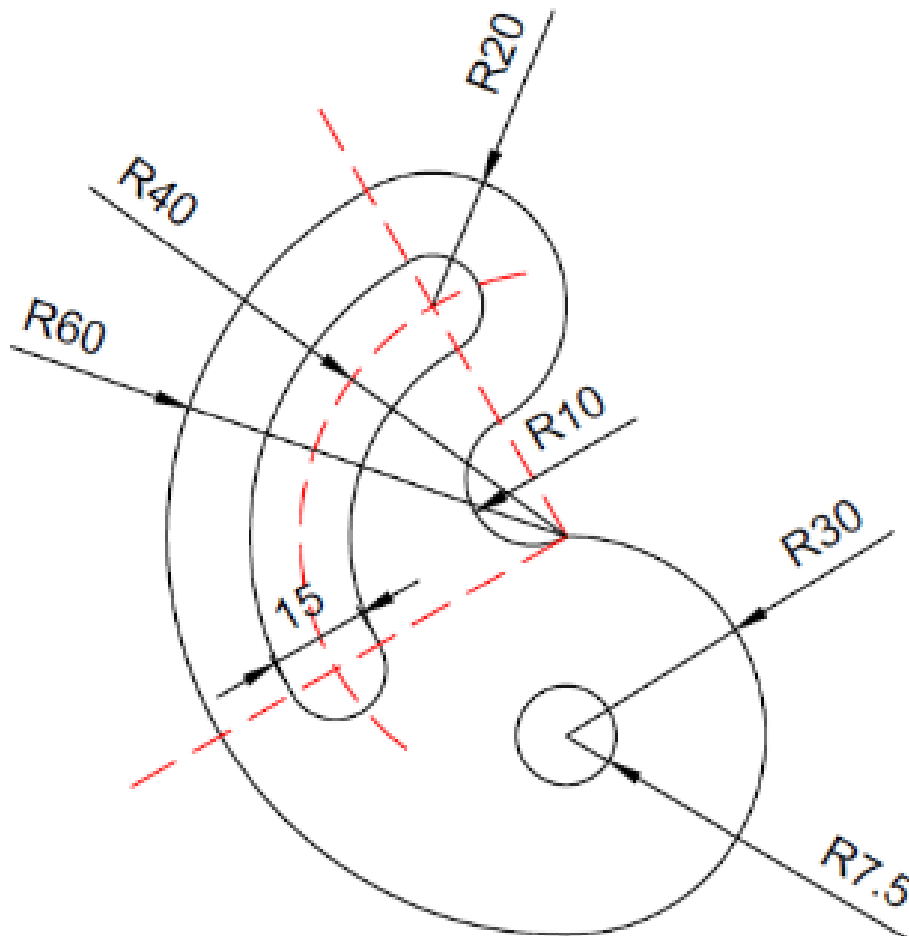
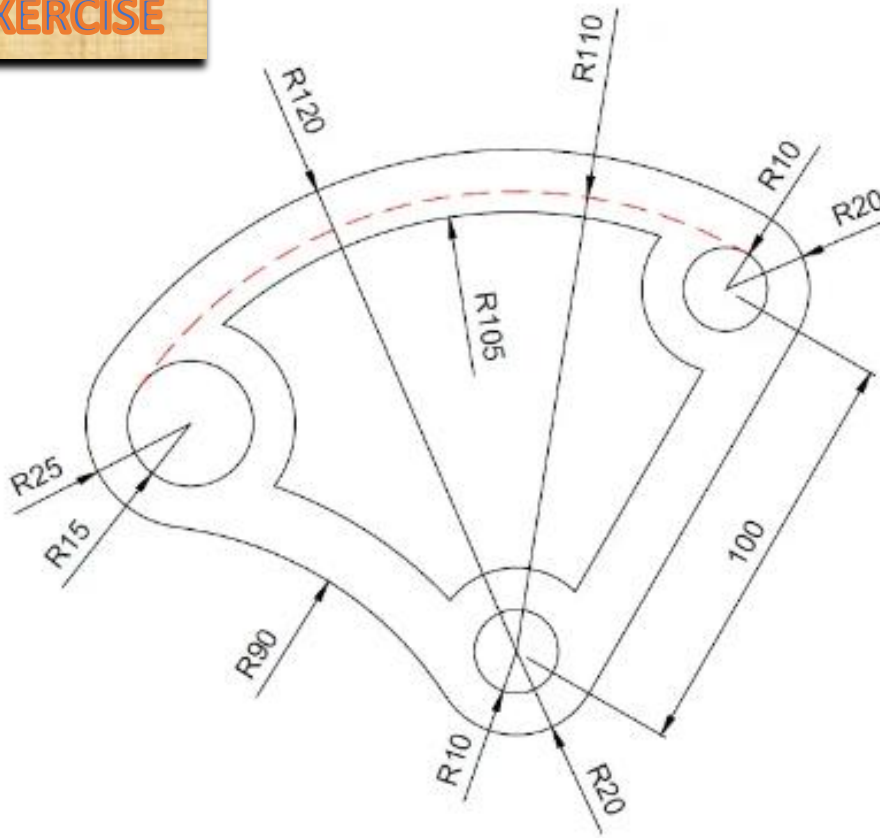
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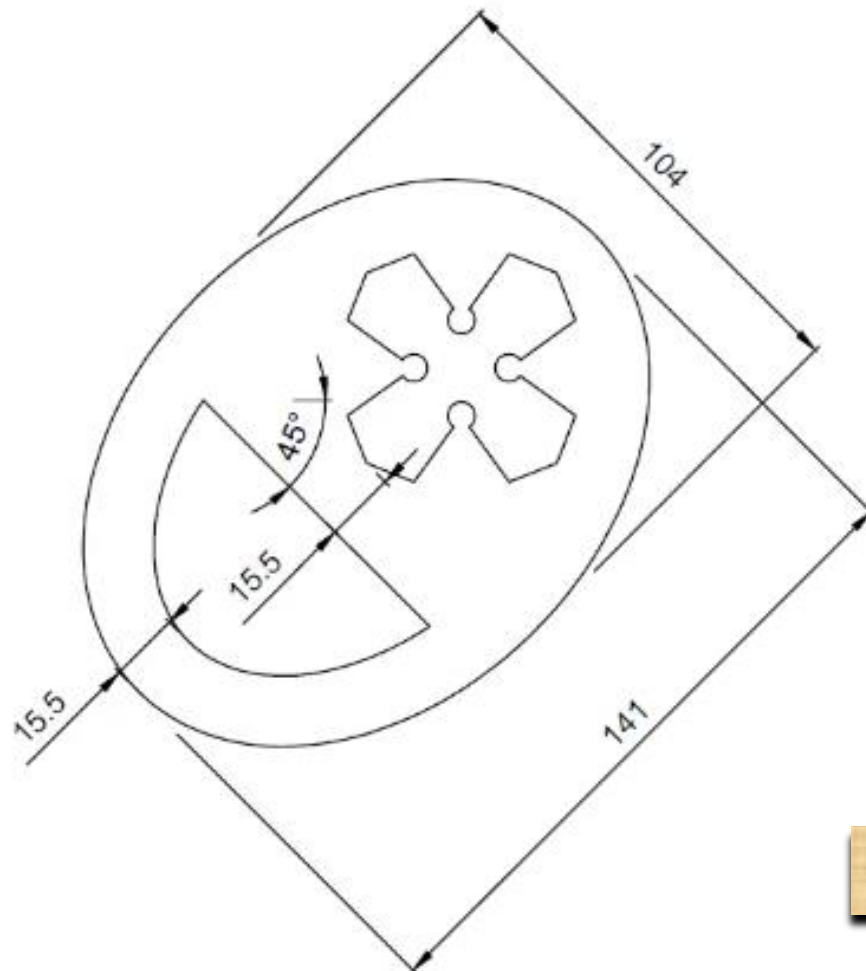
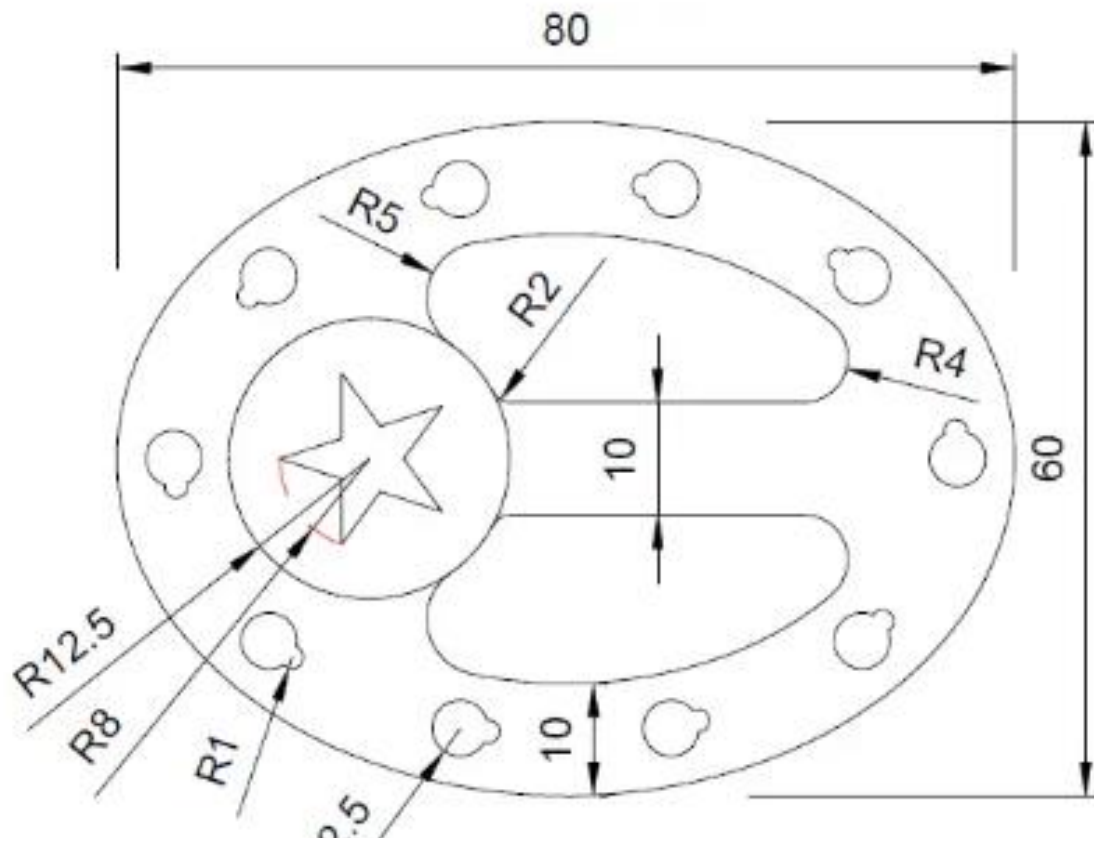


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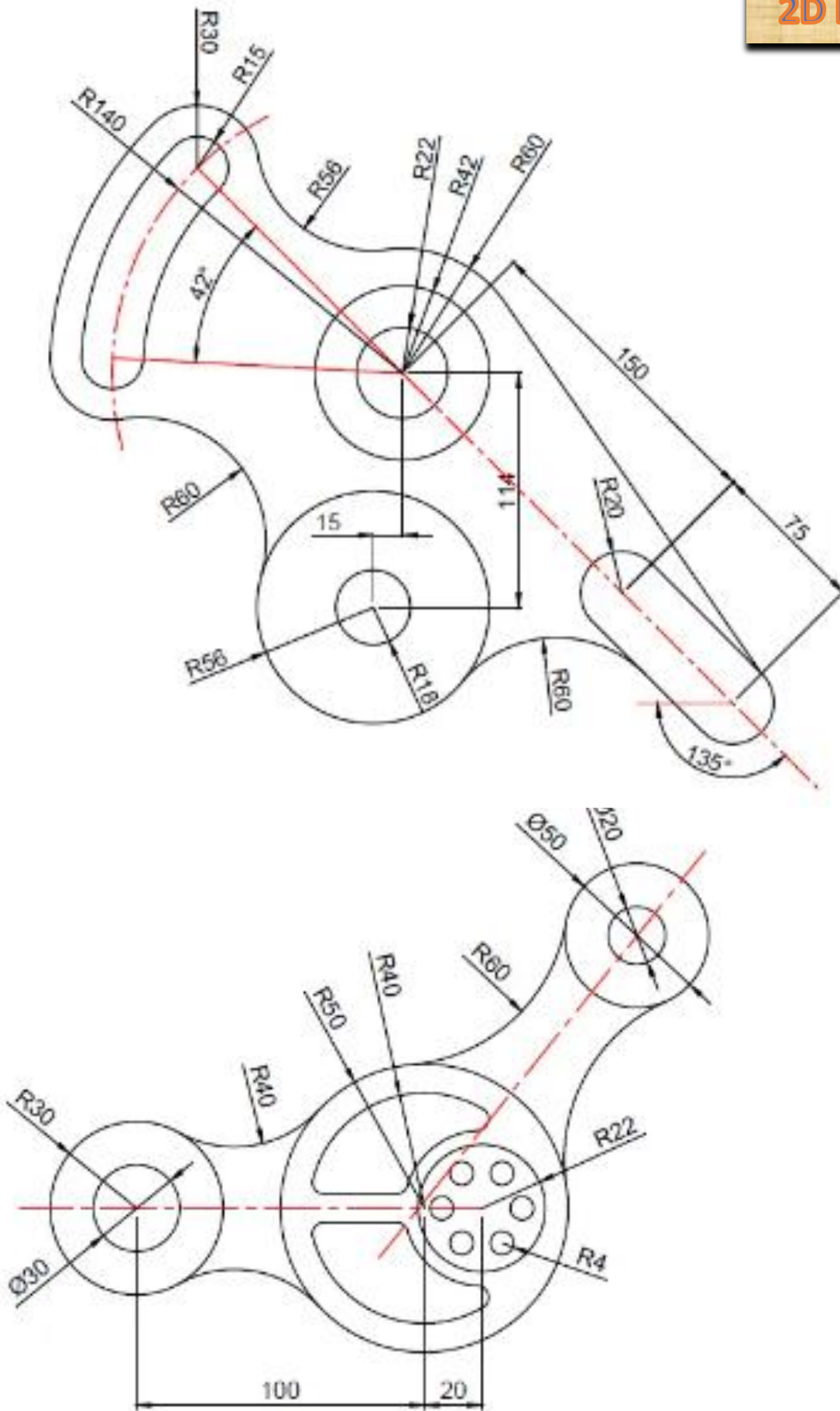
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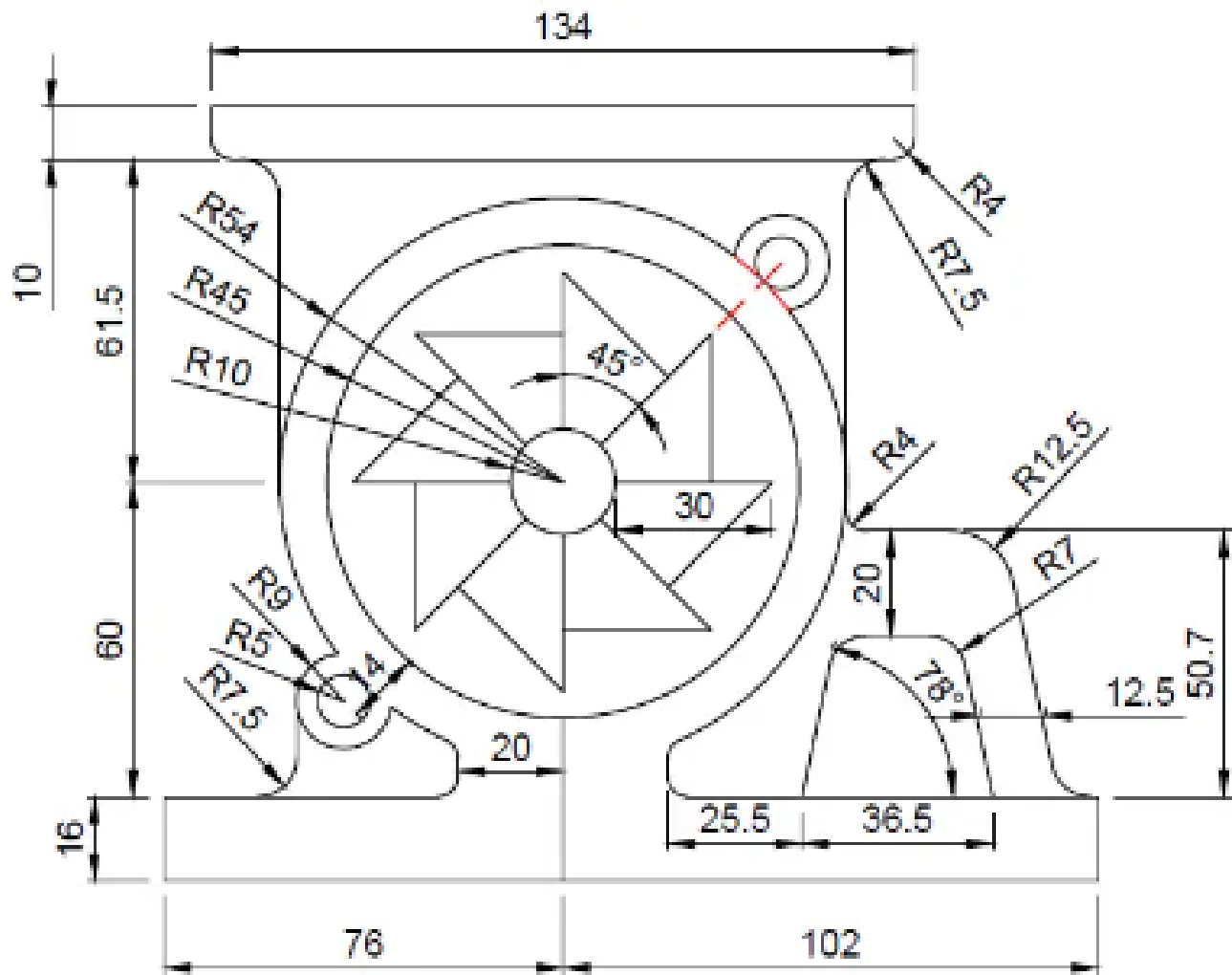




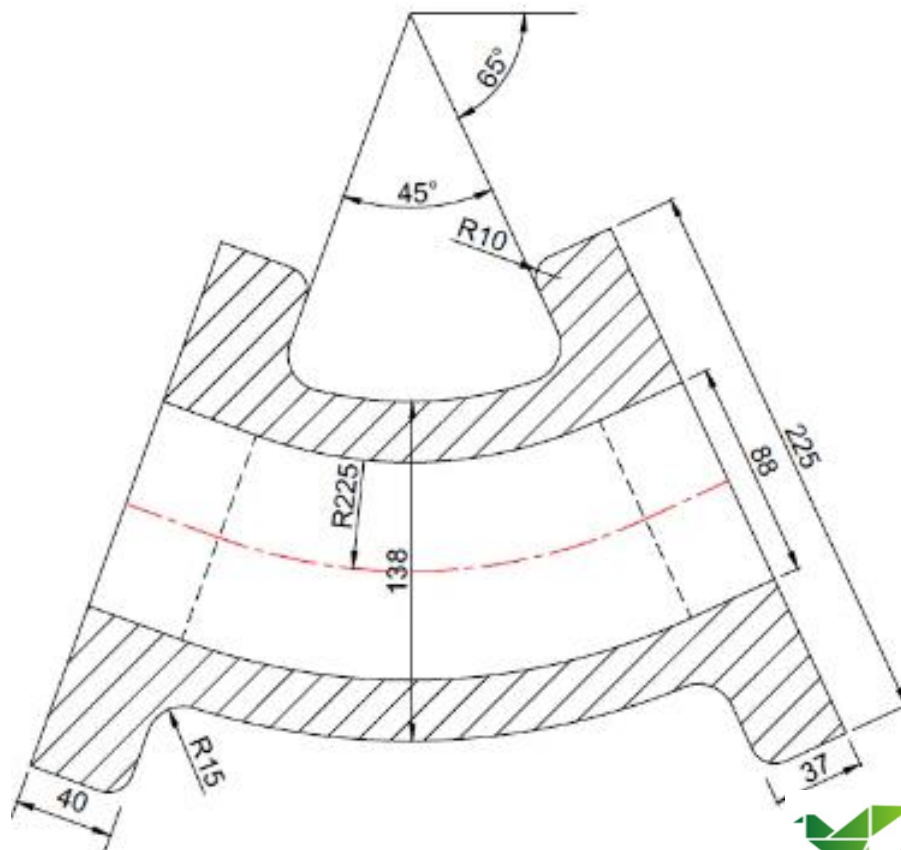
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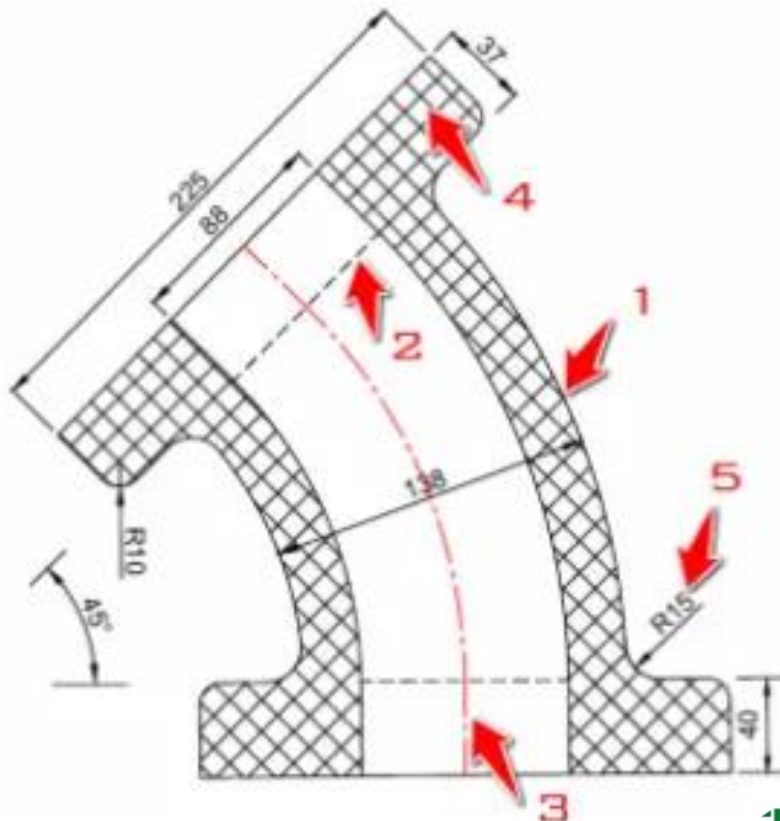
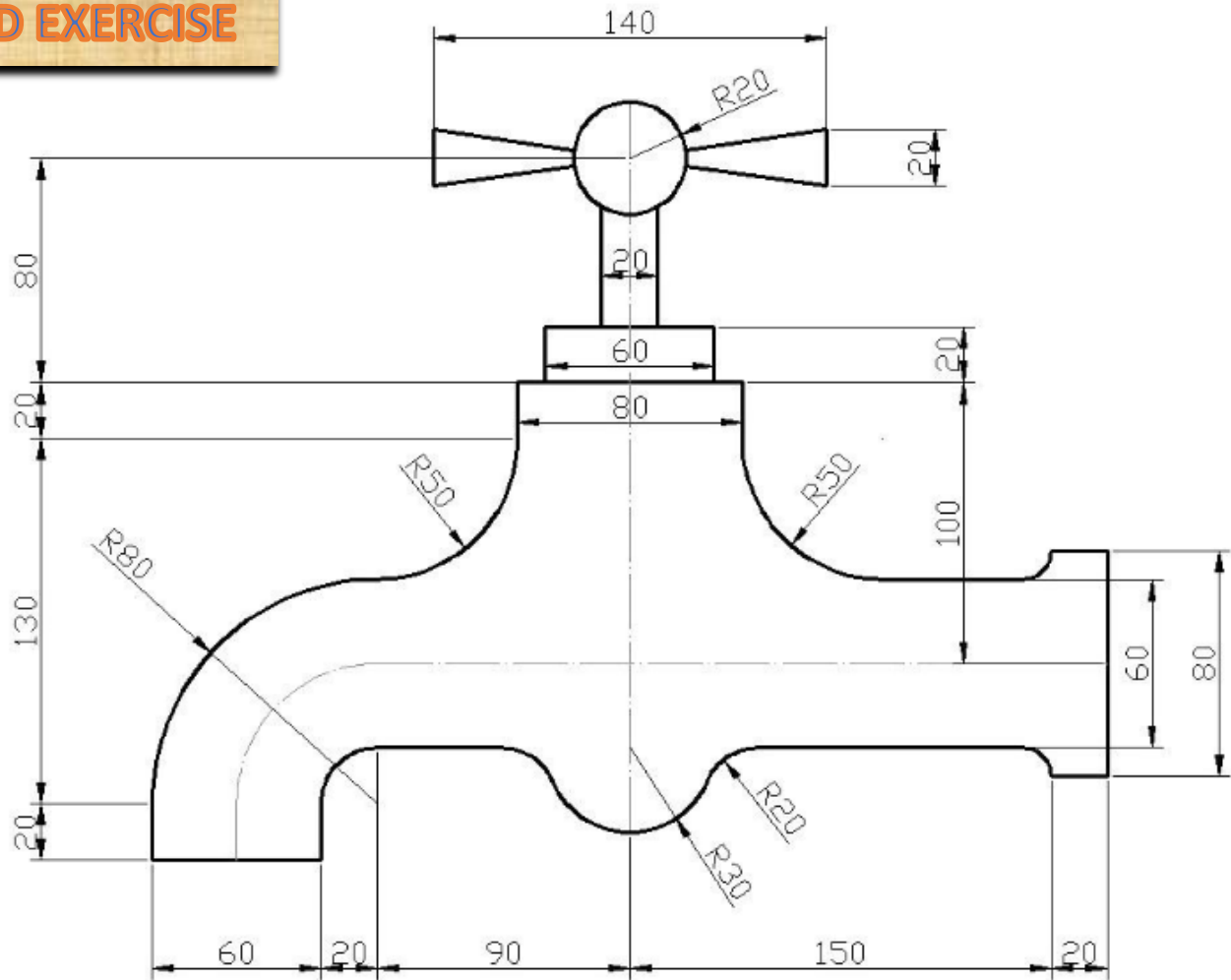




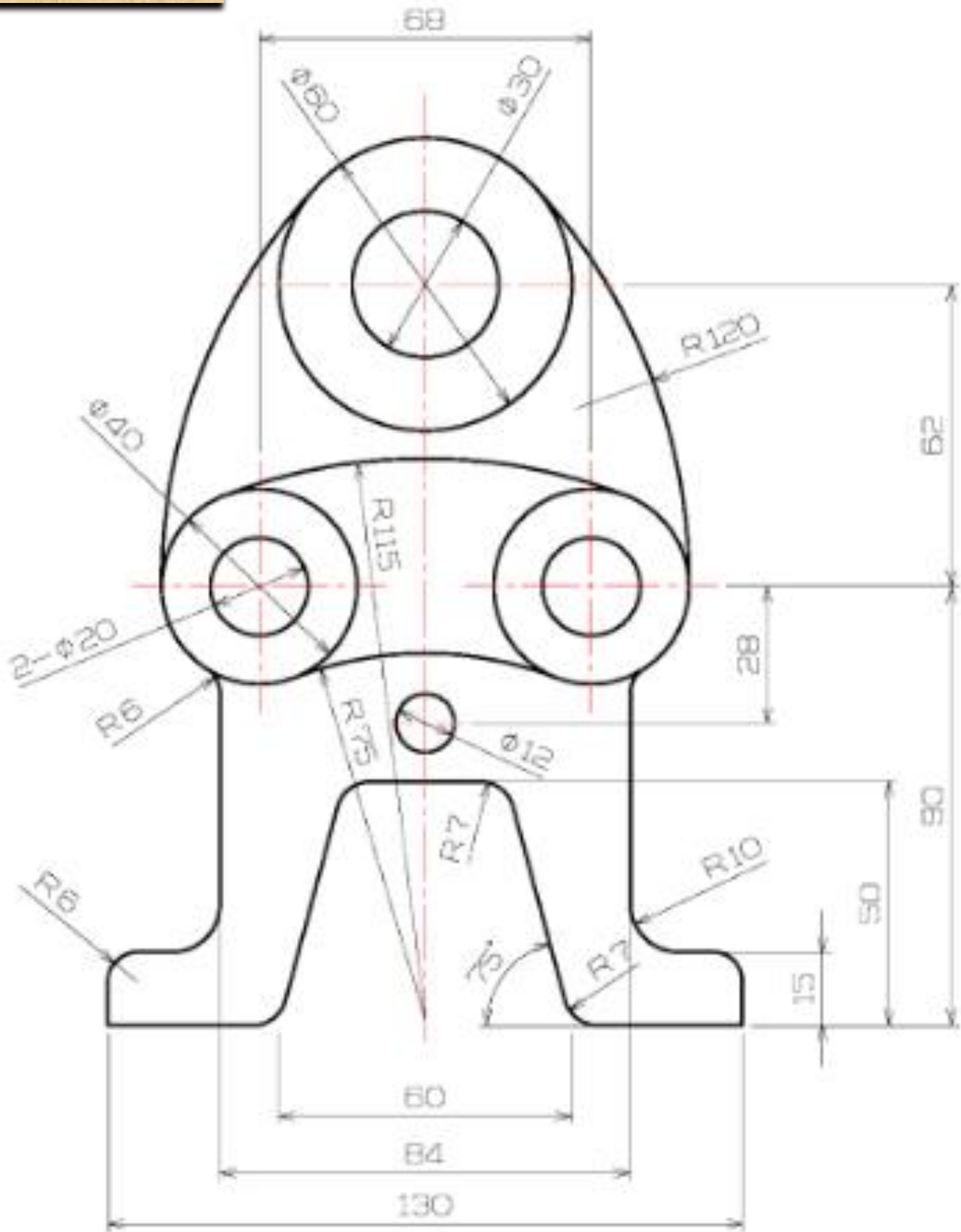
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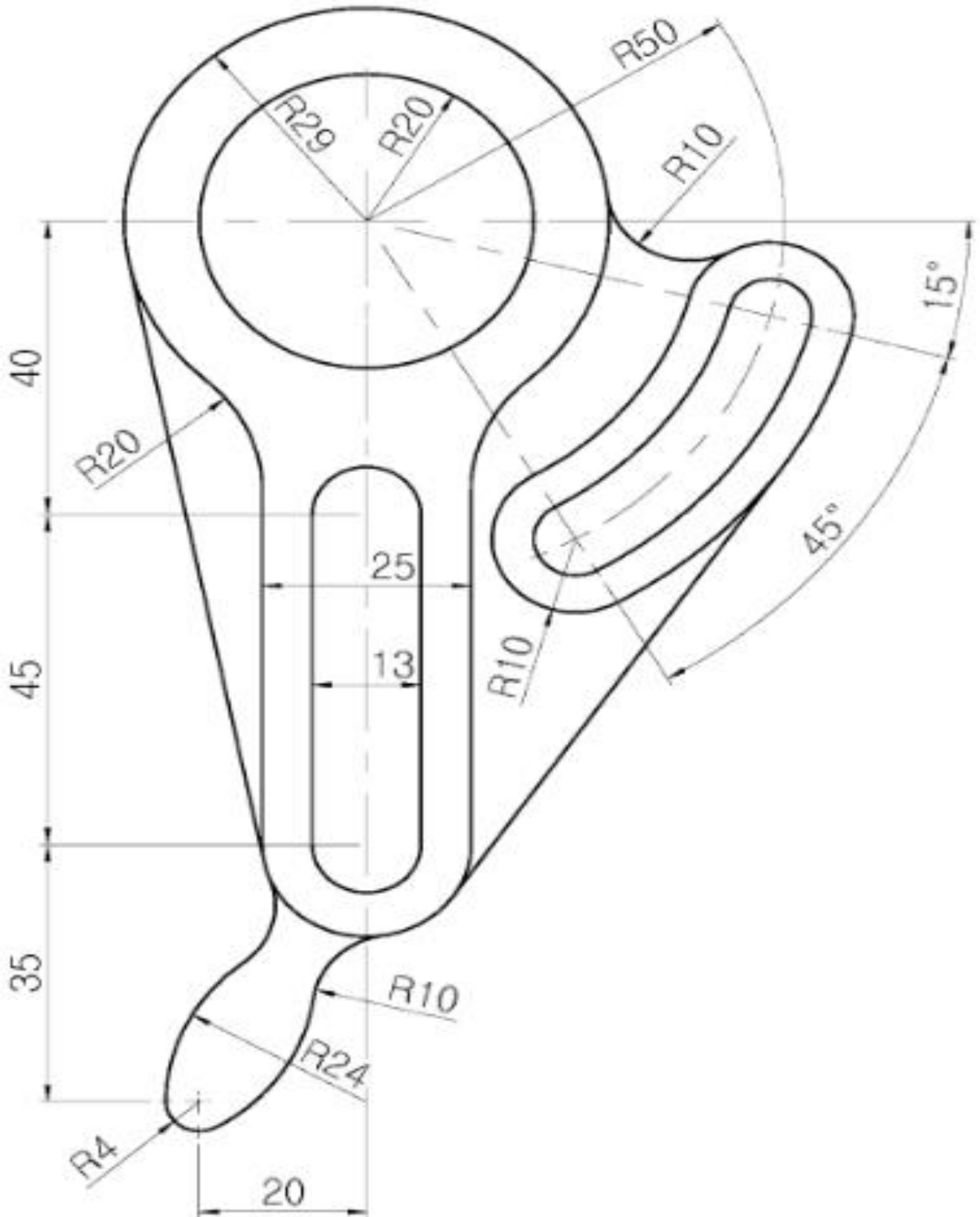
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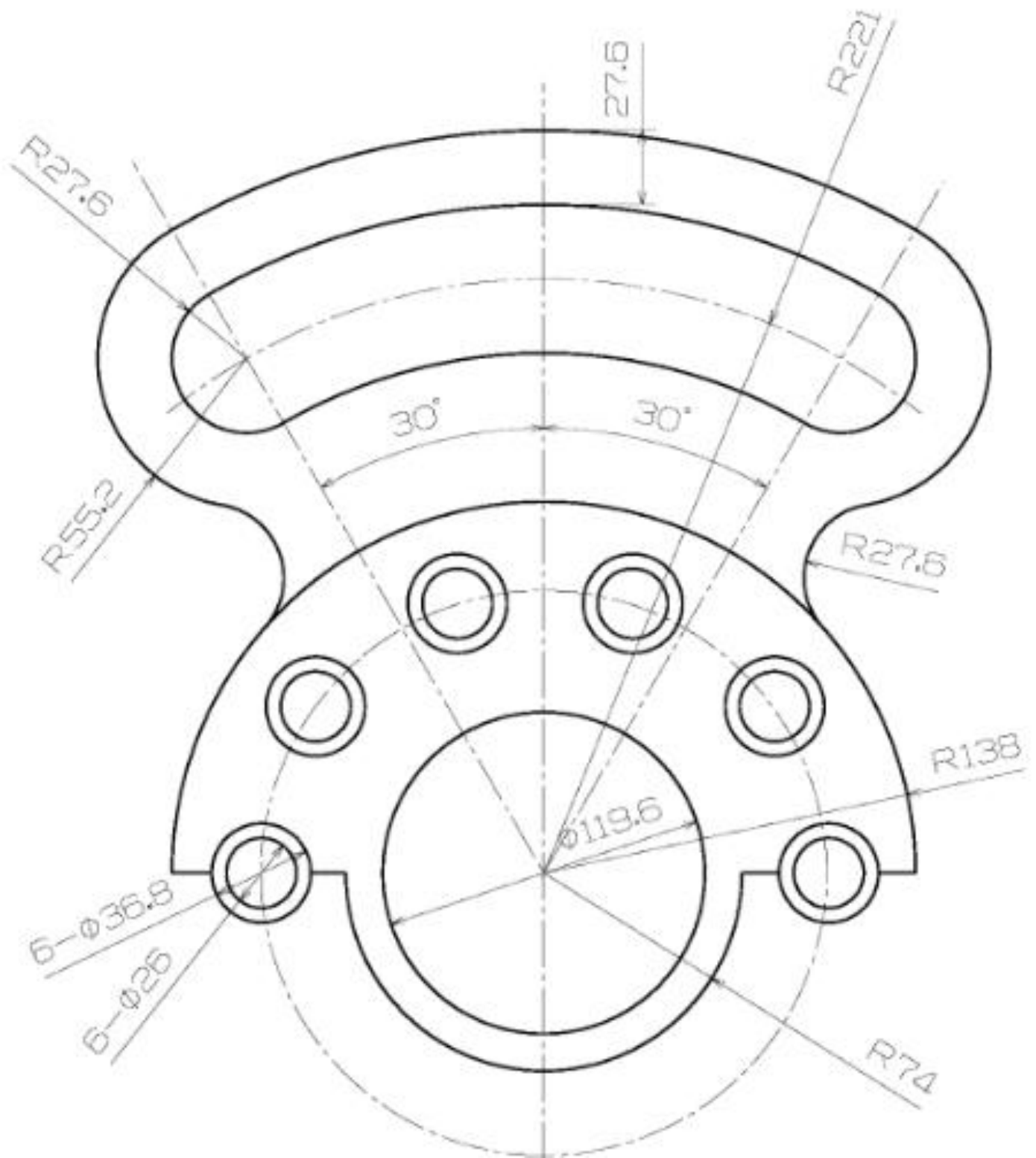
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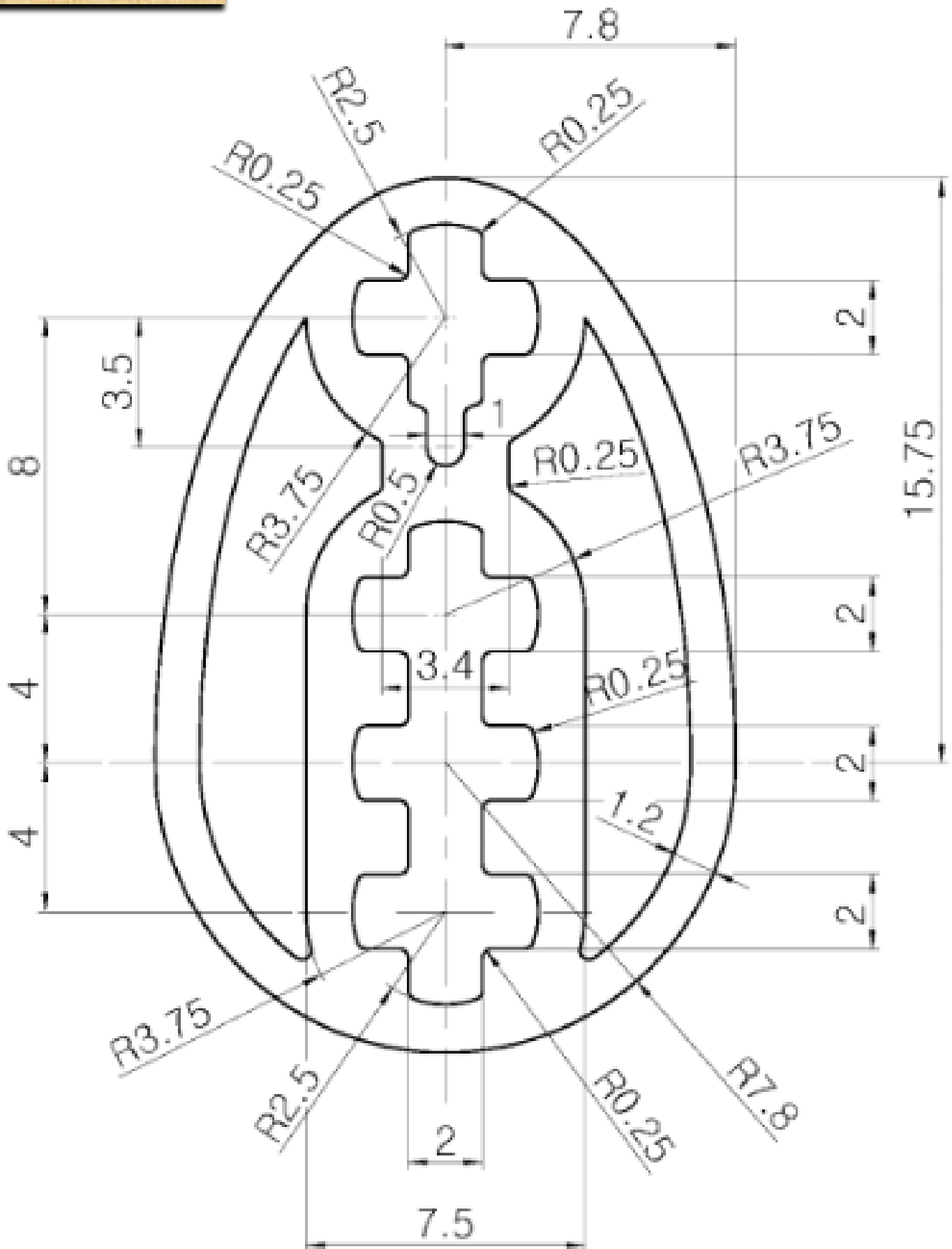
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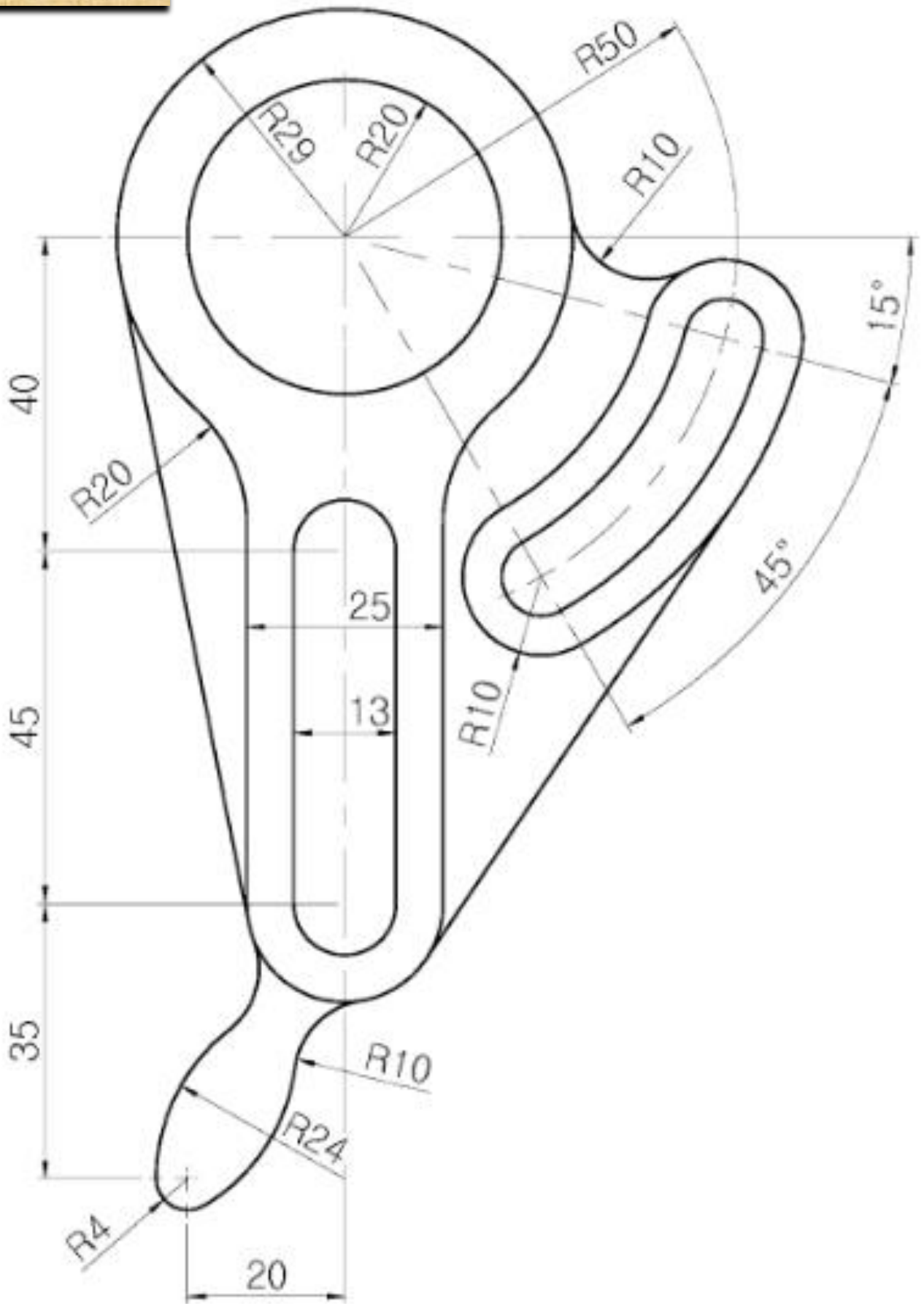
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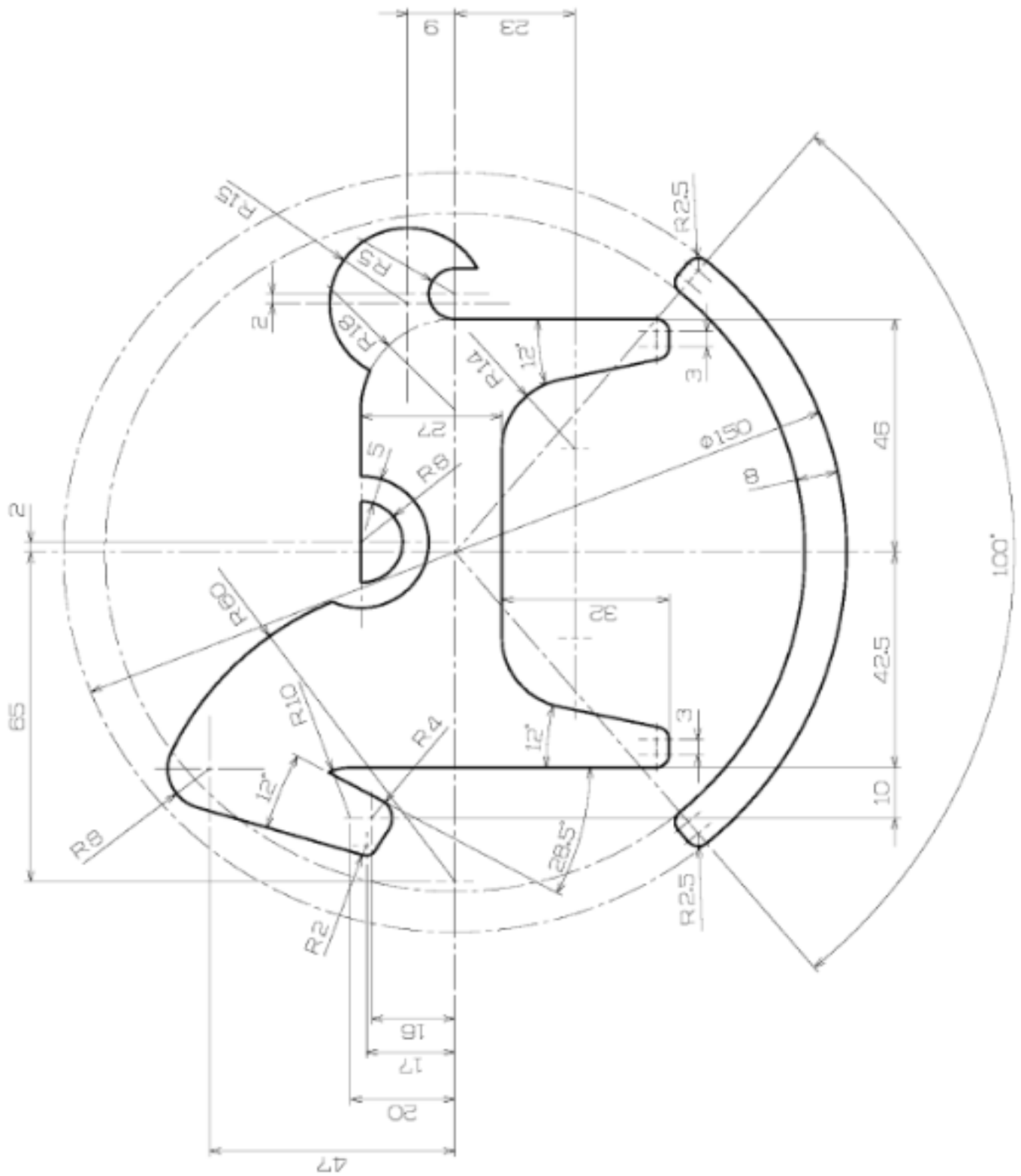
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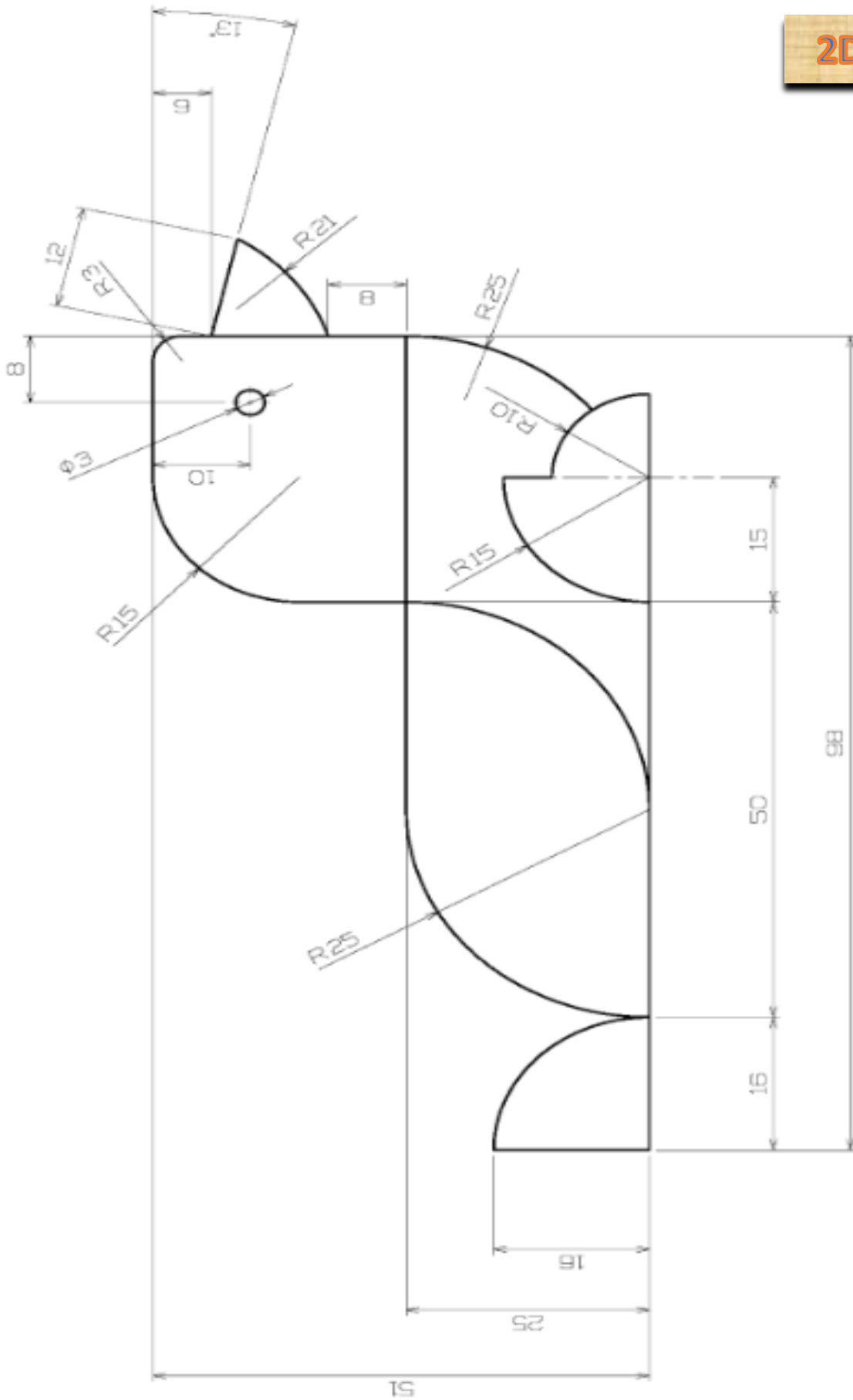
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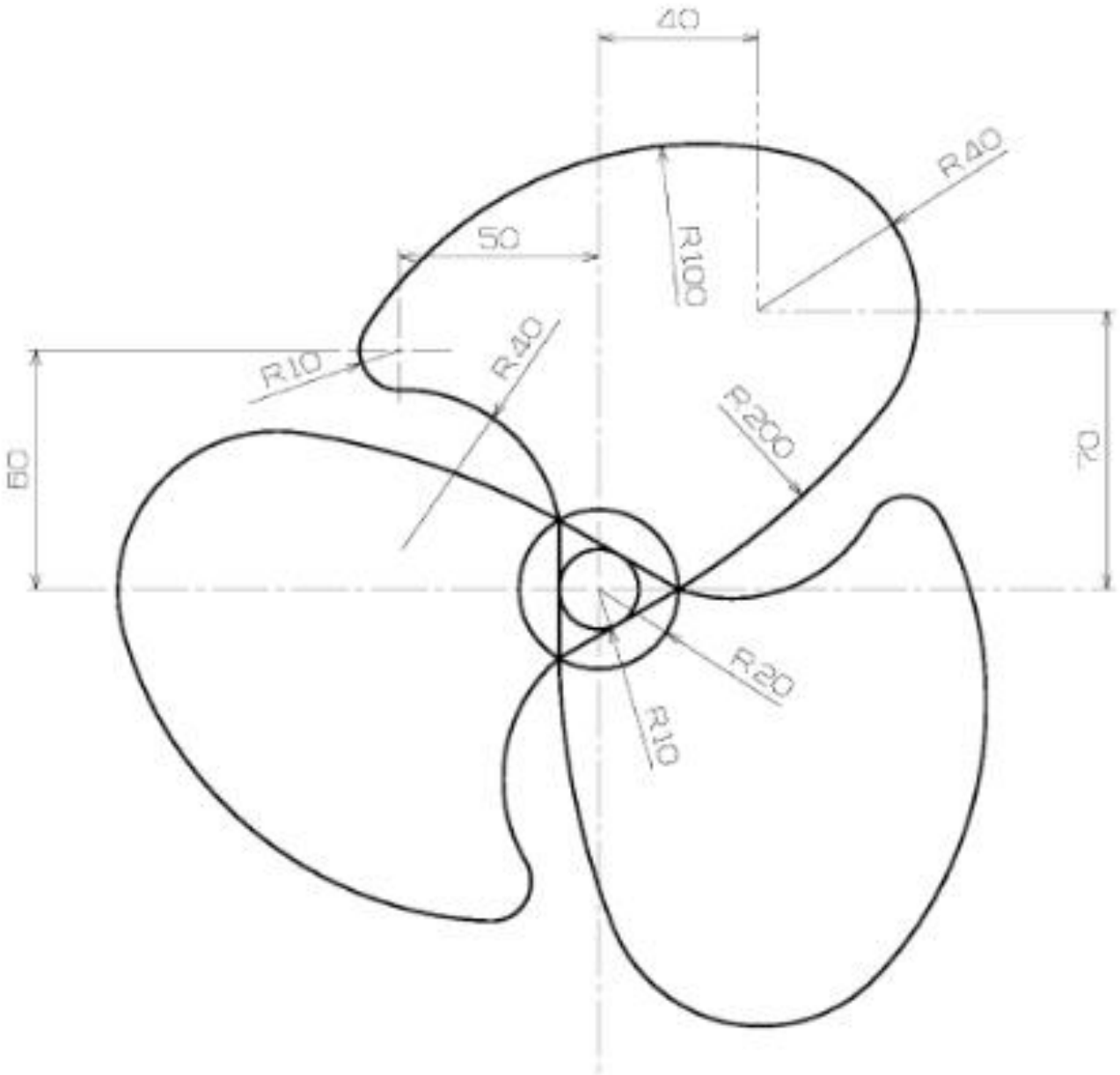
2D EXERCISE



2D EXERCISE



2D EXERCISE



**YOU CAN'T WIN UNLESS
YOU LEARN HOW TO LOSE**

Thanks You