

121+ Top CAD Practice Exercises



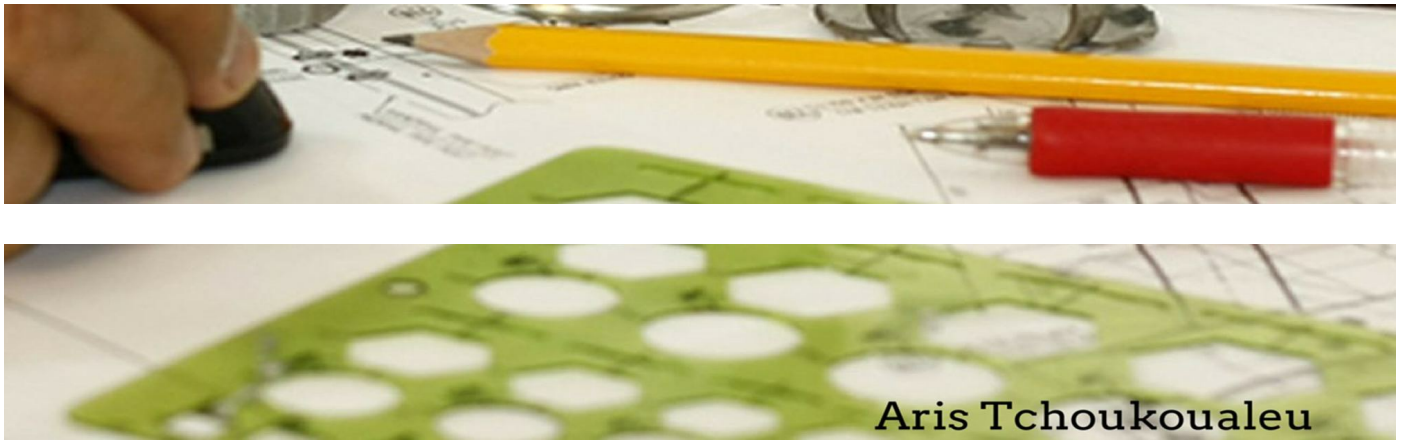
121+

Top **CAD** Practice

Exercises



41 3D-EXERCISES
81 2D-EXERCISES



DISCLAIMER

Here you will find 41 3D-exercises and over 81 2D-exercises. These exercises are designed to help you easily gauge your improvement while learning how to use any CAD software.

This Book was primarily designed for AutoCAD and AutoDesk 123D-design users, but can also be used for other CAD software.

Please understand that information contained in this guide is for informational purposes only.

Users of this guide are advised to do their own due diligence when it comes to finding information on how to solve each exercises contained in this Book.

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By reading this guide, you agree that myself and my company is not responsible for your capacity to grasp some or any CAD skill.

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BONUS

As a way of saying thanks for the time you have taken to read this guide, I wanted to provide you with actual 3D CAD files of the exercises you will find in the Book.

*****ebook converter DEMO Watermarks*****

It is totally free for the readers of this Book

Find the link to it at the last page.

HOW TO USE THIS BOOK

This guide would serve you no matter the step you are on your learning journey. By “step” I mean either 2D or 3D.

Each exercise has 2D images where annotations are done, and then a 3D representation of the exercise is provided. If you are still at the step of 2D, follow only 2D representation in exercises, and when you get to master 3D, you can come back and complete the 3D part.

If you are focussing only on the 2D exercises, remember they should be completed in pairs for most of them, since you will need information provided on both images to complete the whole.

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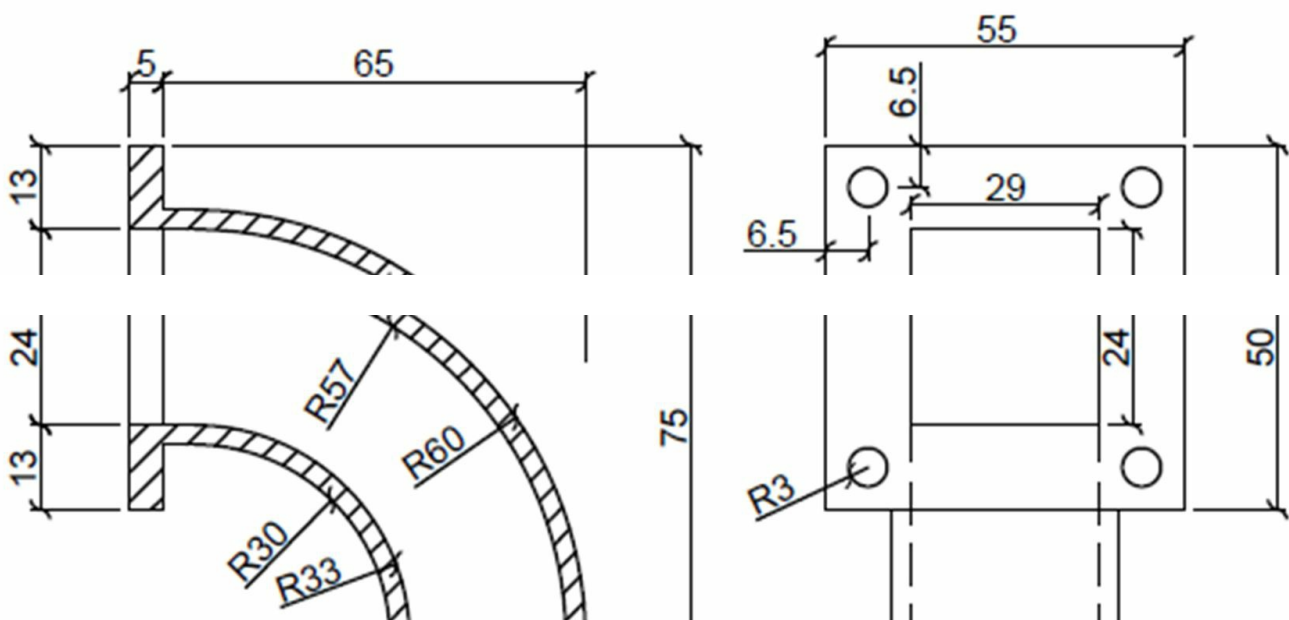
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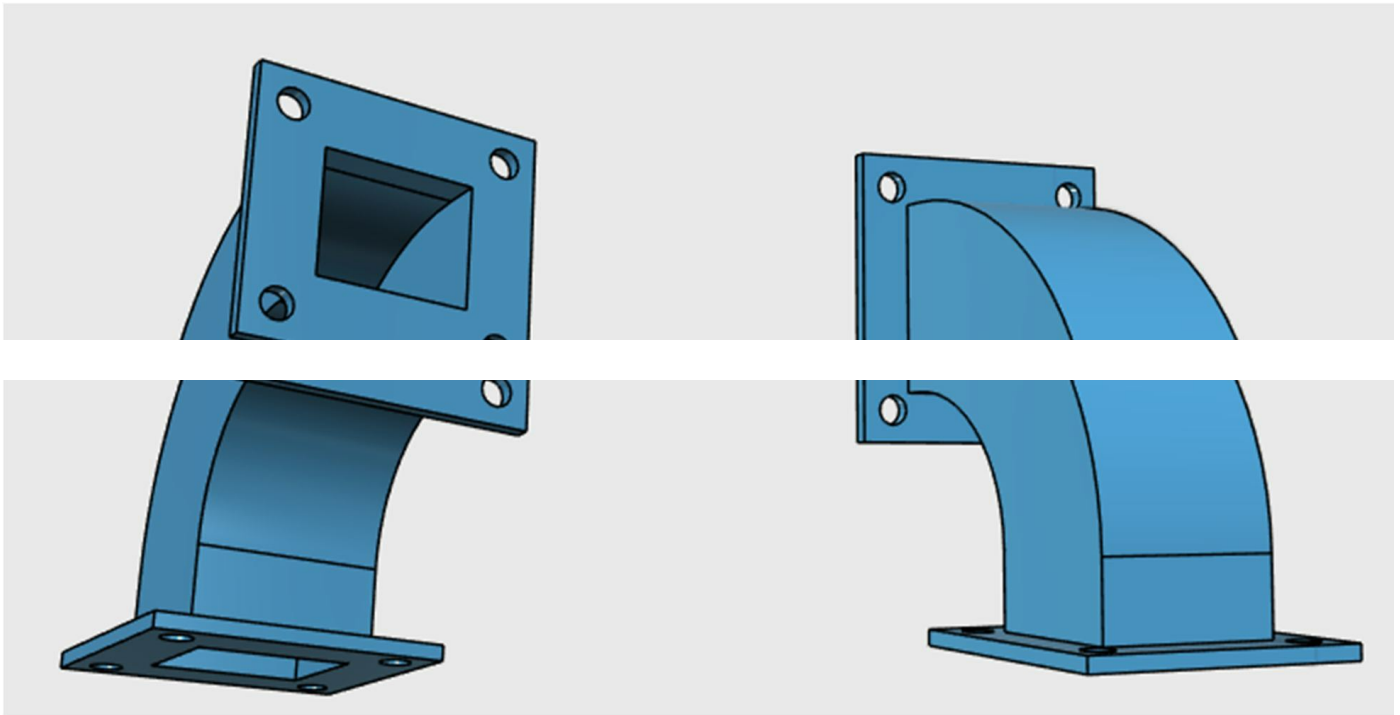
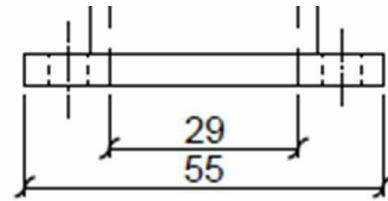
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Exercise – Mechanical part twenty four

Exercise – Mechanical part twenty five

[Link to the Bonus](#)

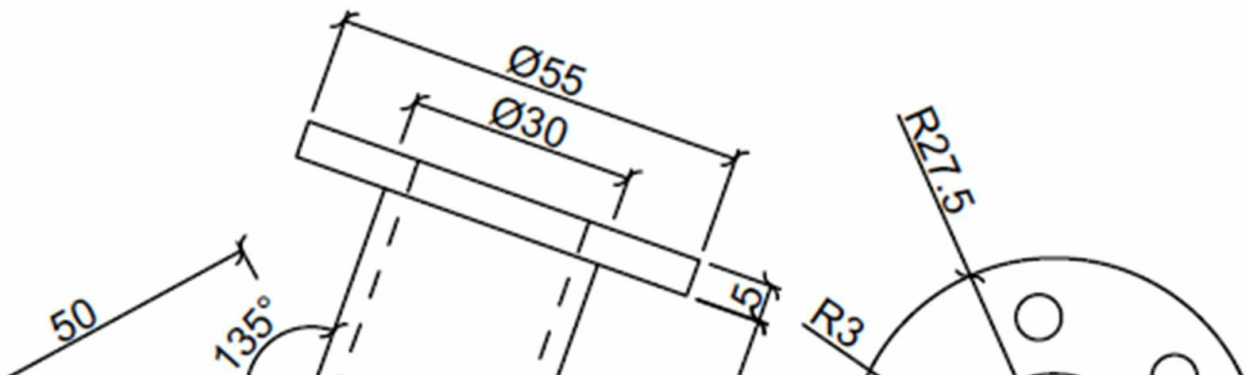


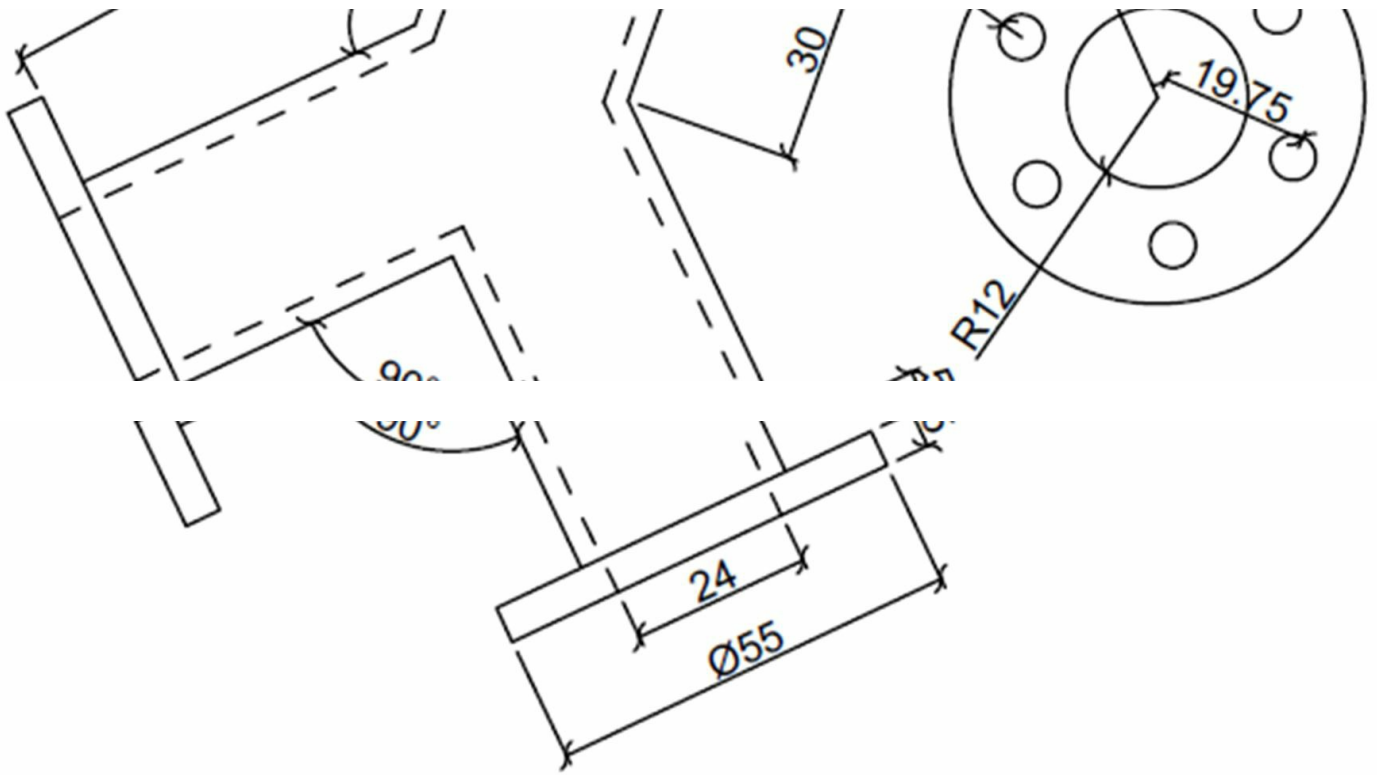


EXERCISE – HALLOW

2D

3D



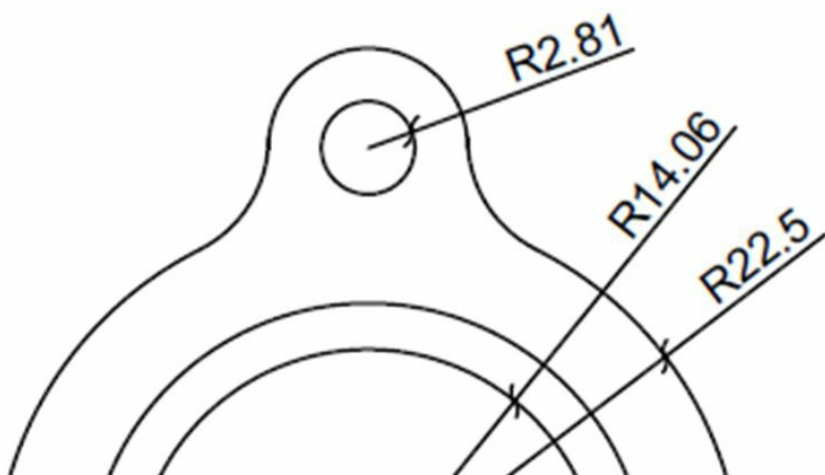
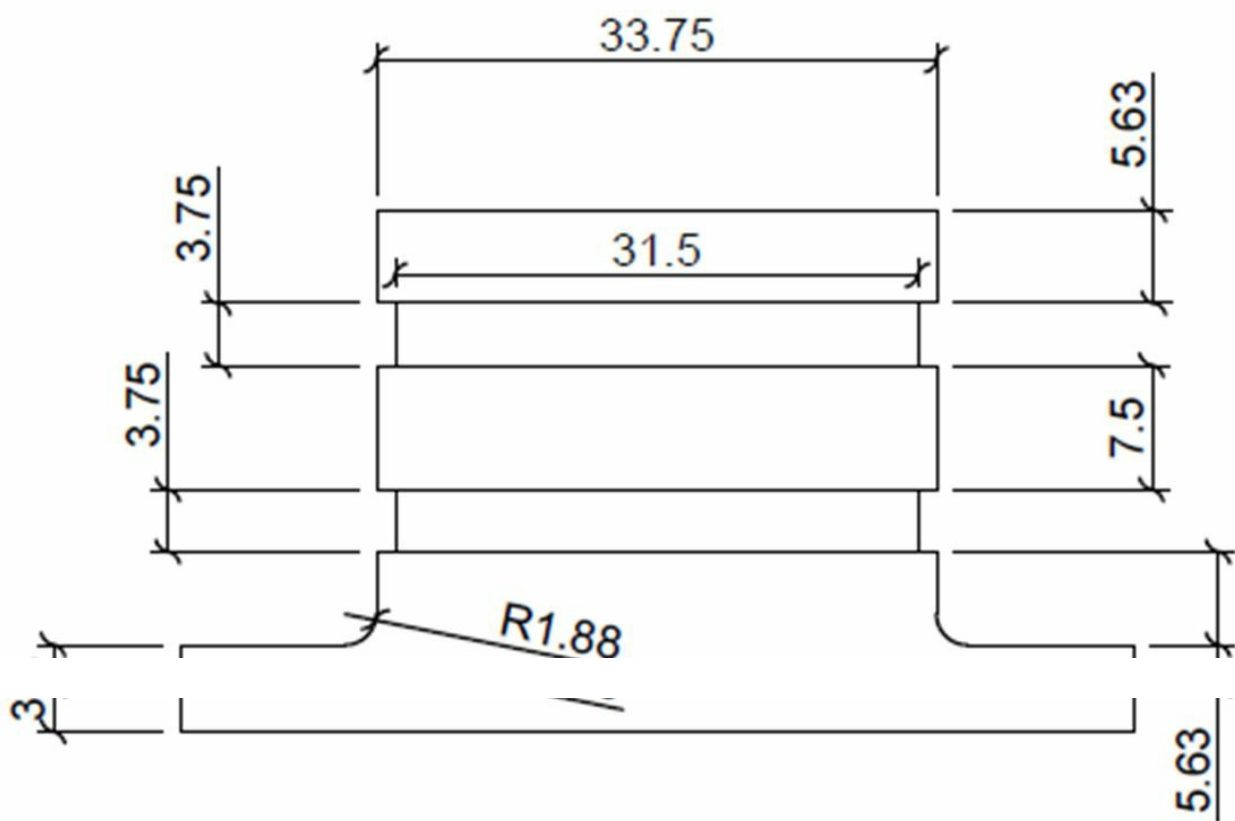


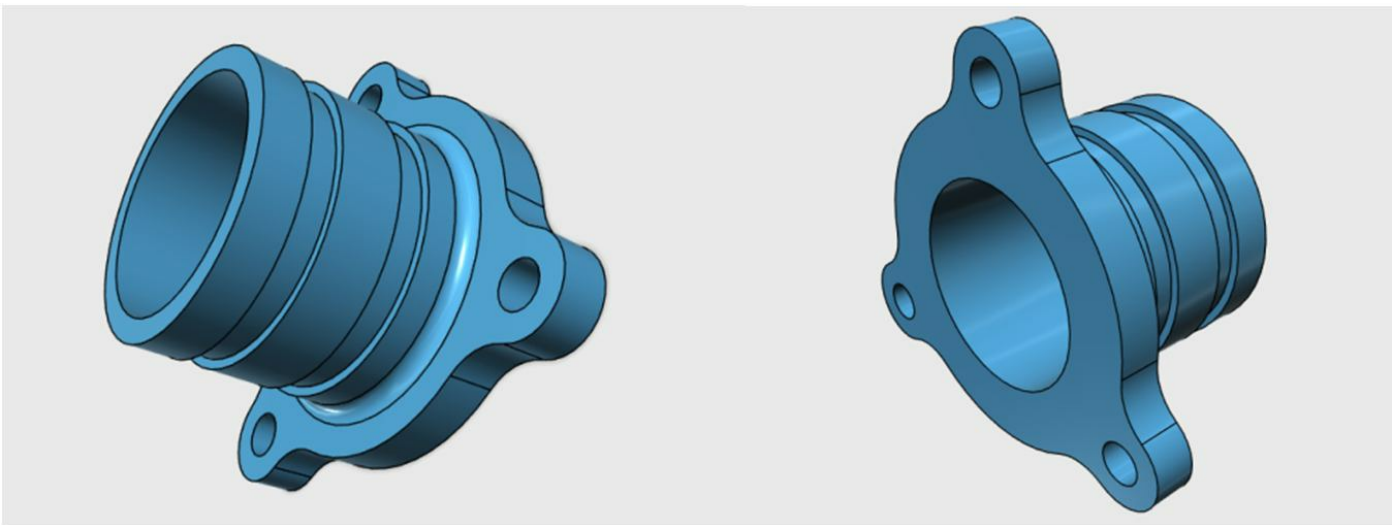
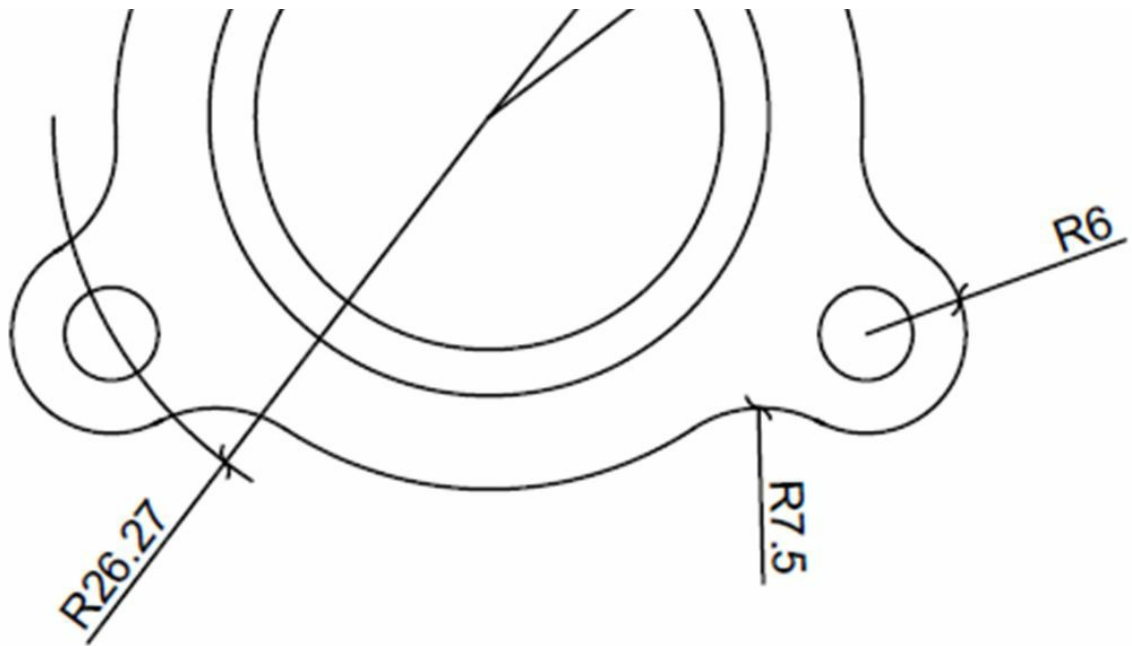


EXERCISE – CARREFOUR

2D

3D





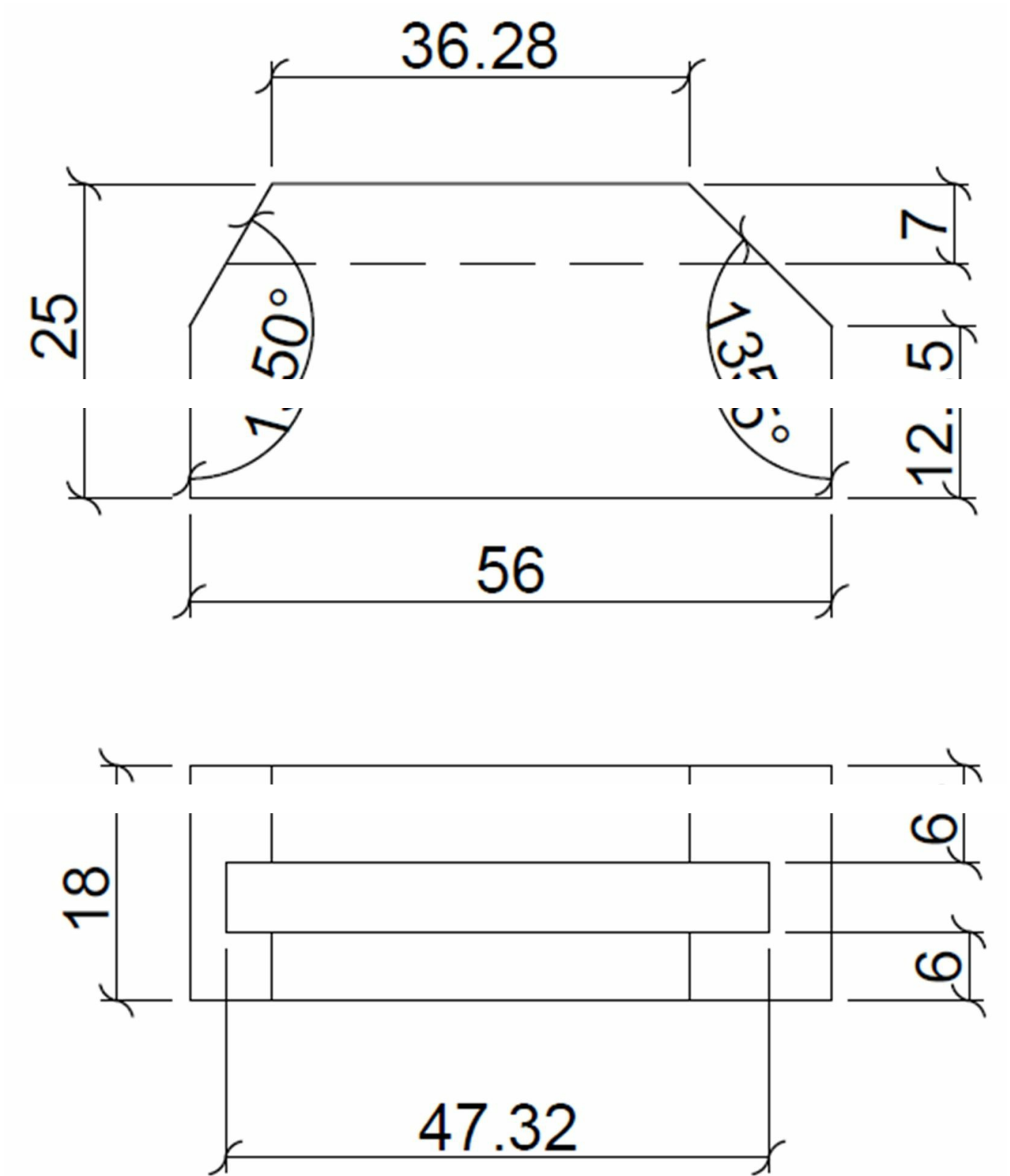
EXERCISE – MECHANICAL PART ONE

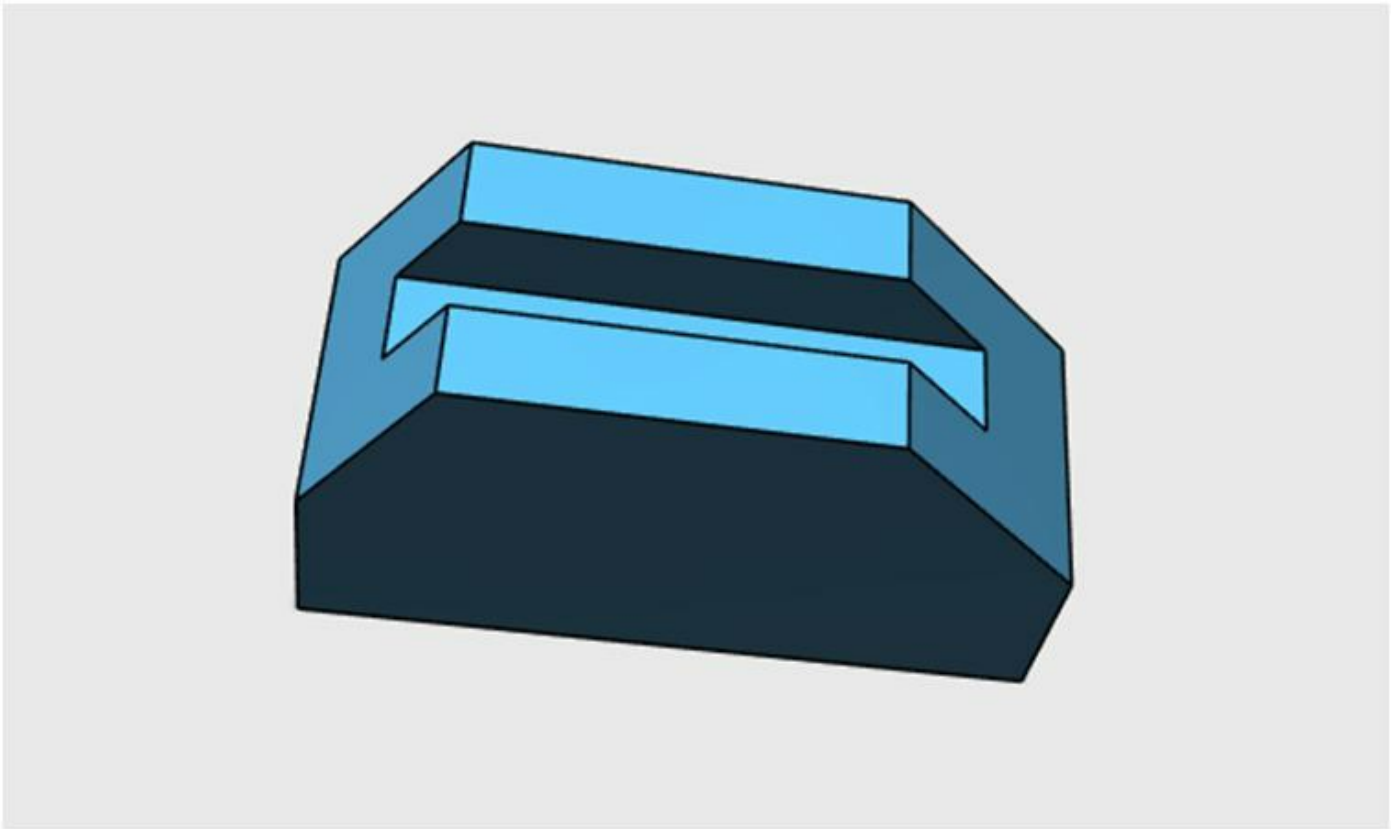
2D

3D

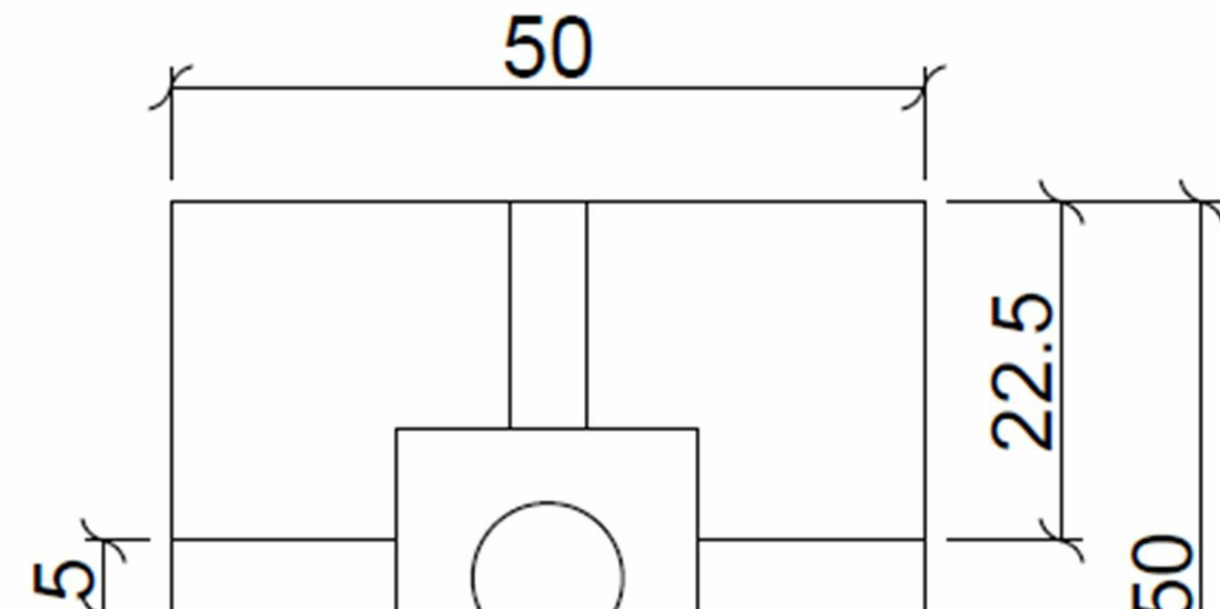
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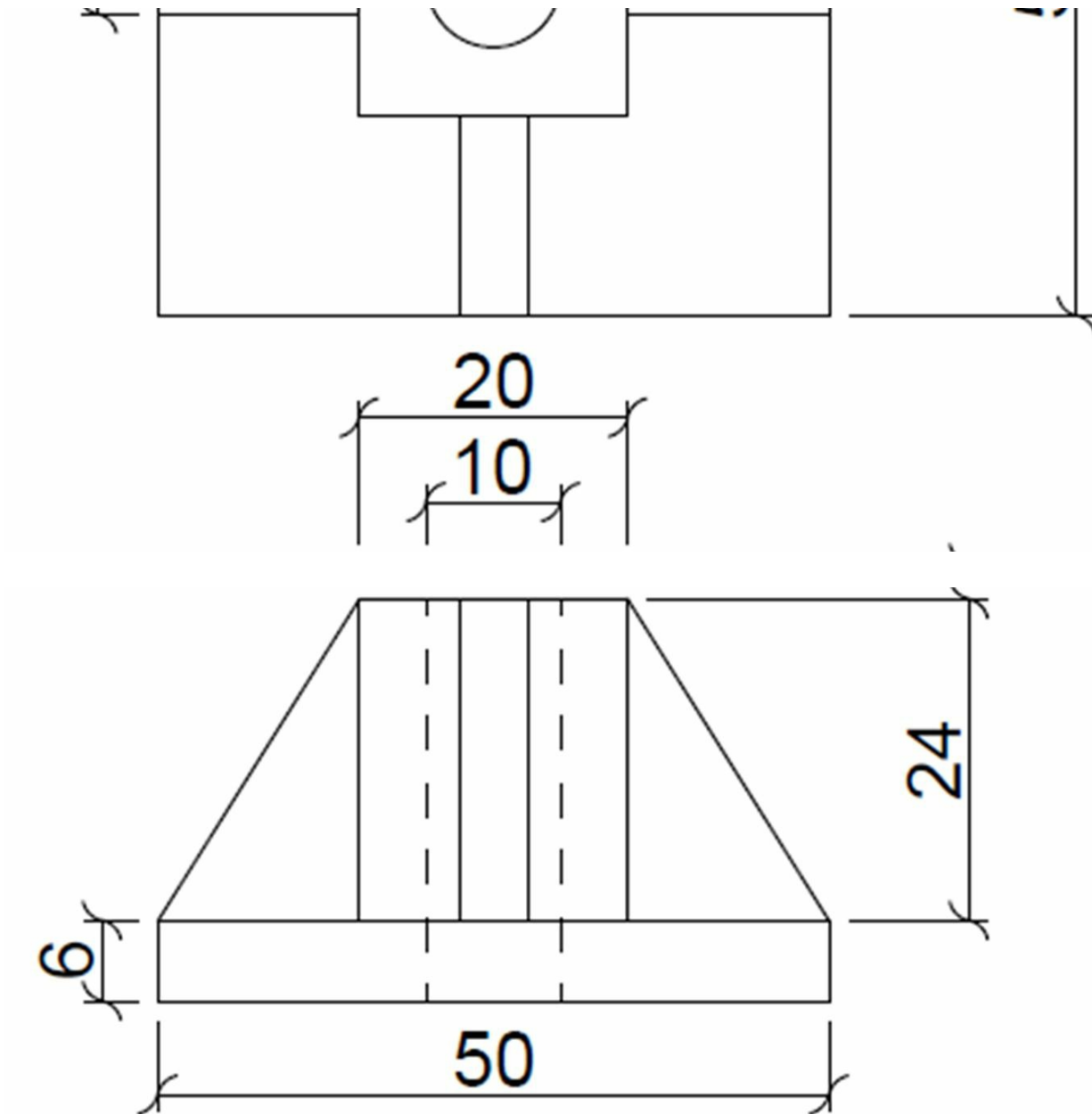
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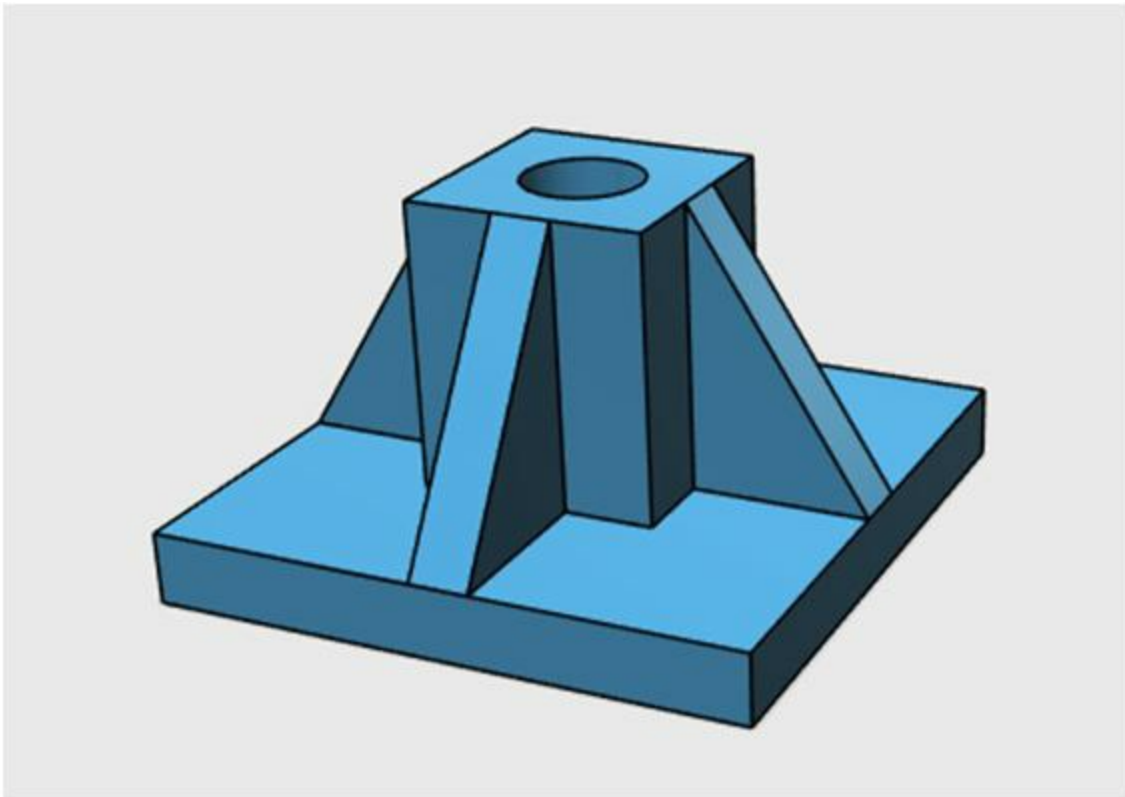




3D



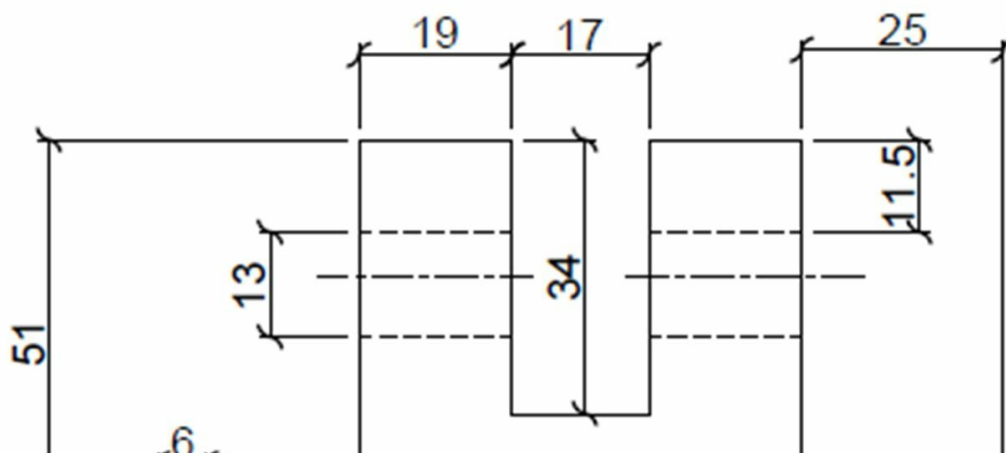


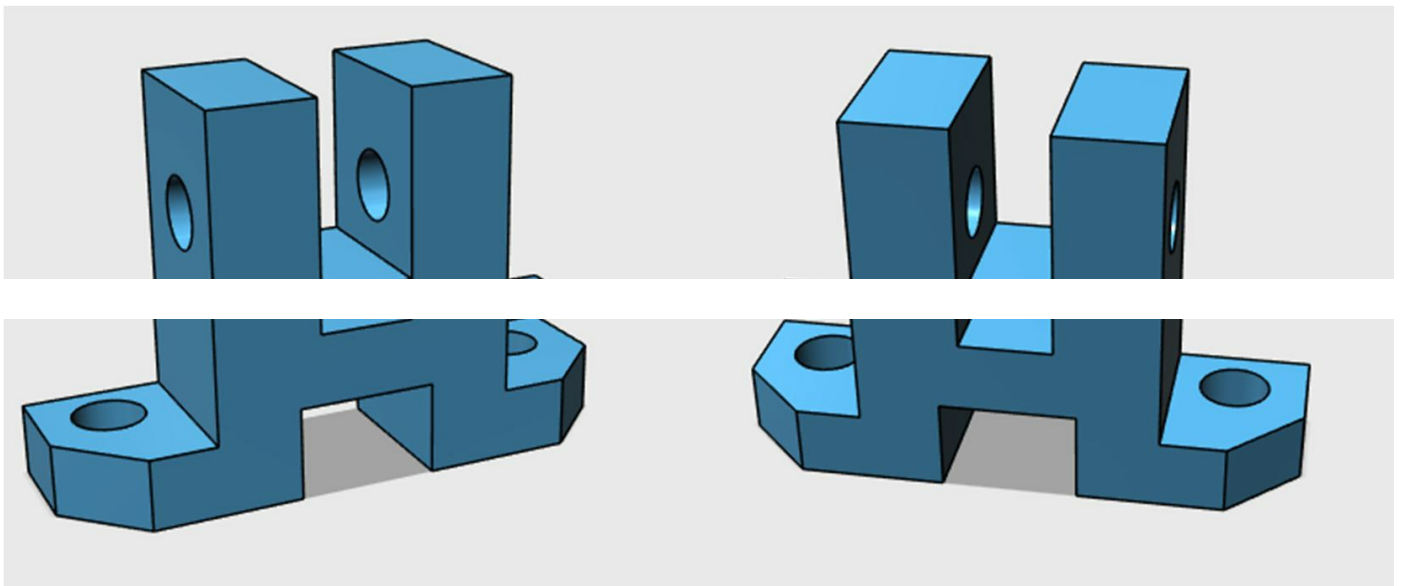
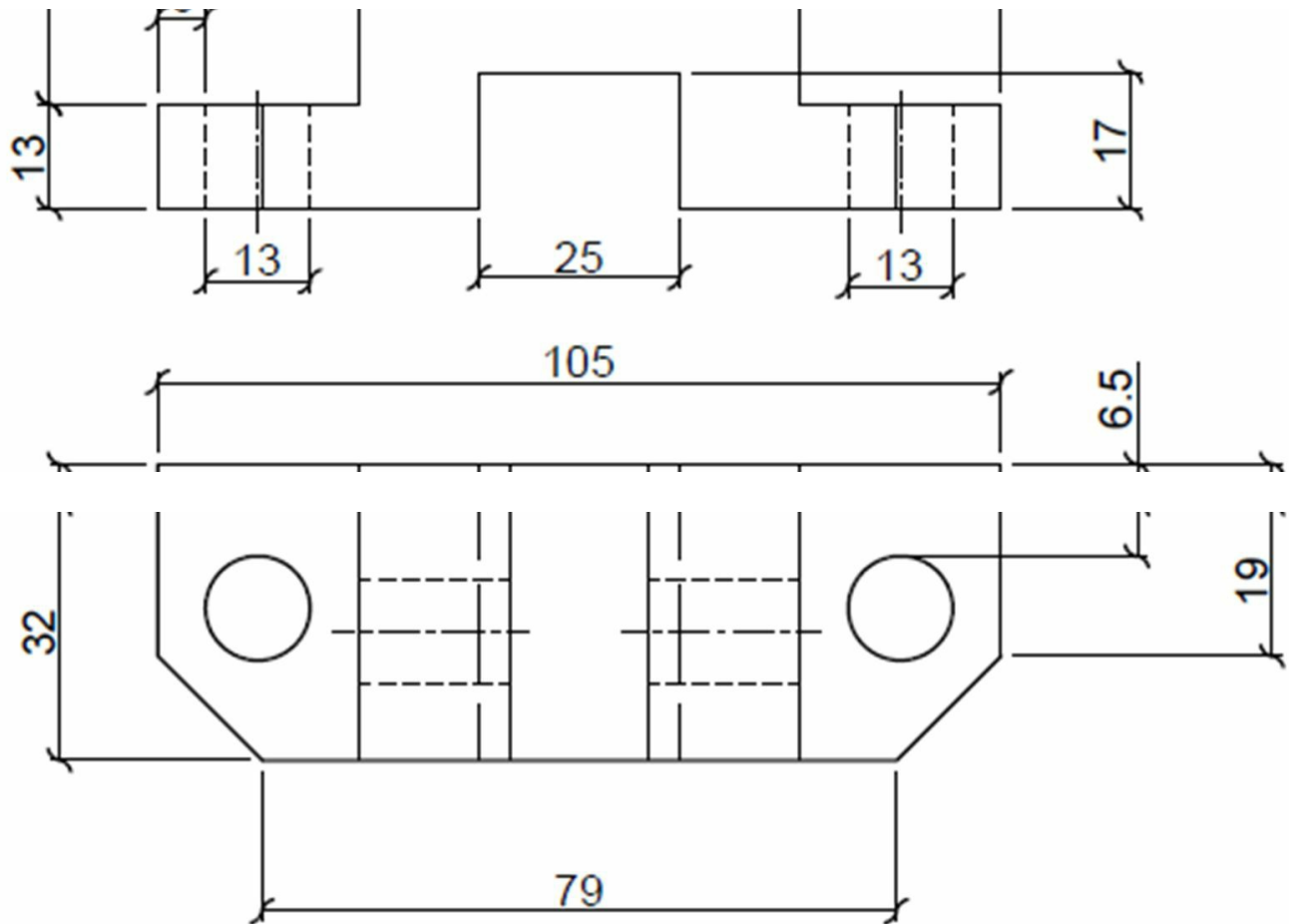


EXERCISE – SIMPLE TWO

2D

3D



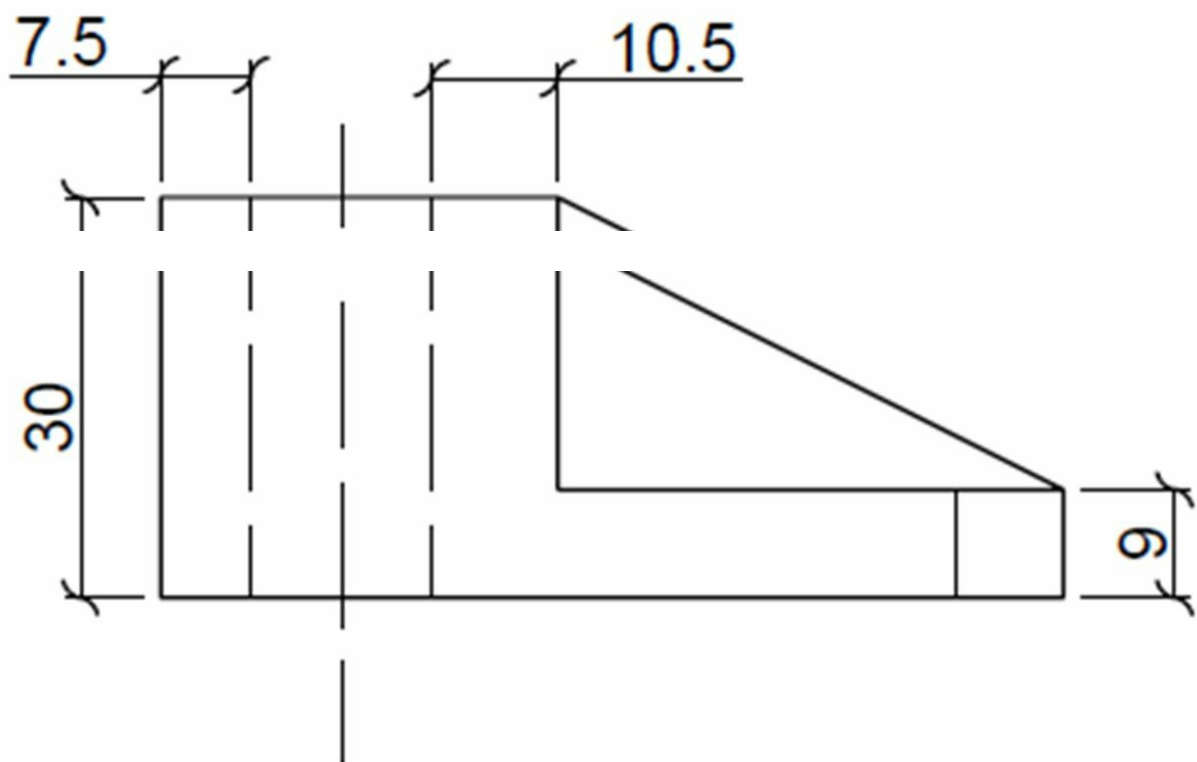
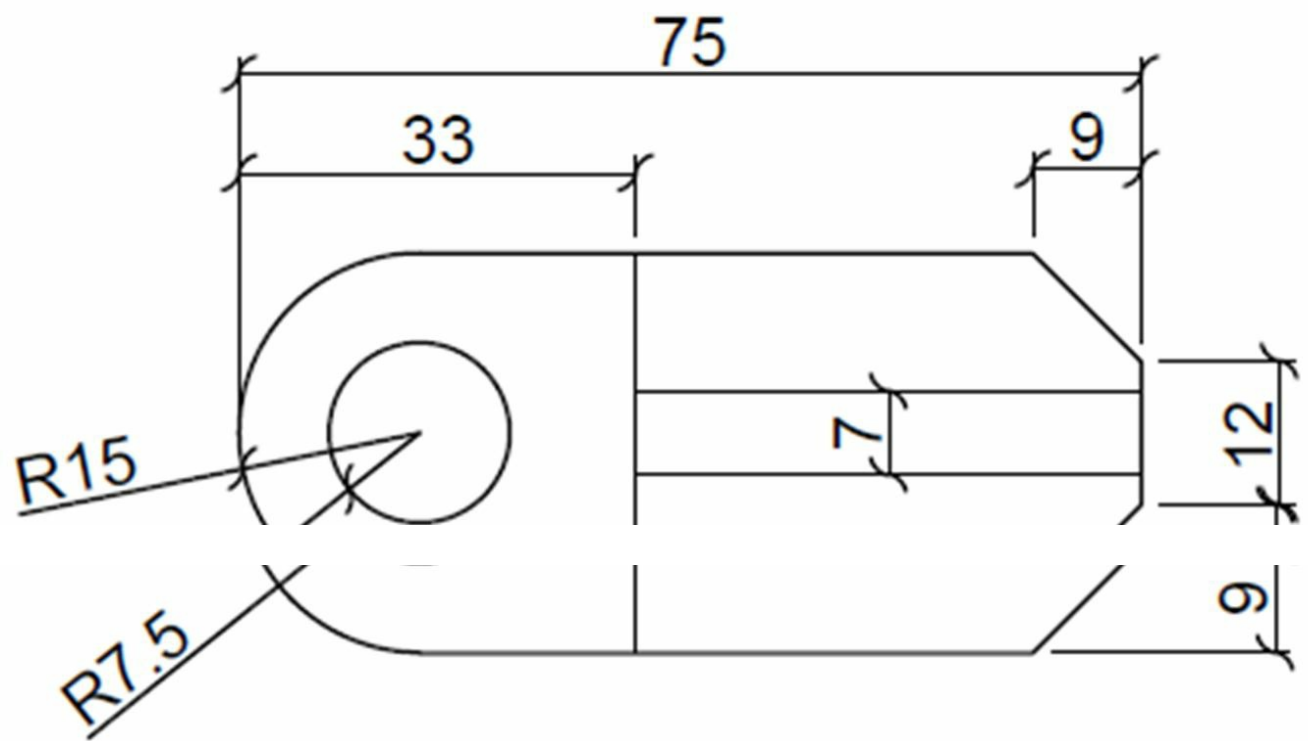


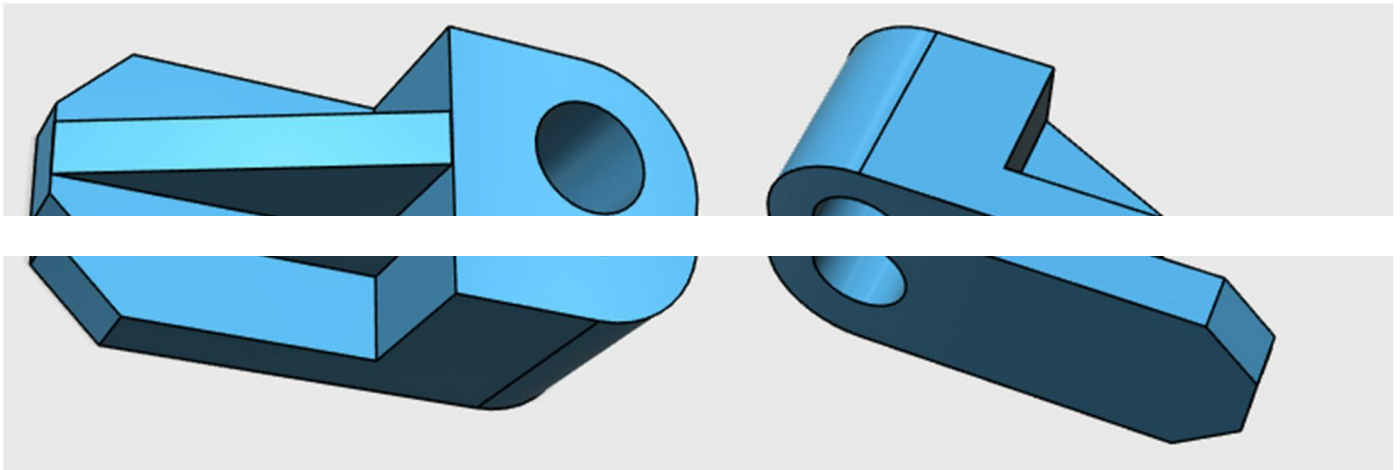
EXERCISE – PRE COMPLEX ONE

2D

3D

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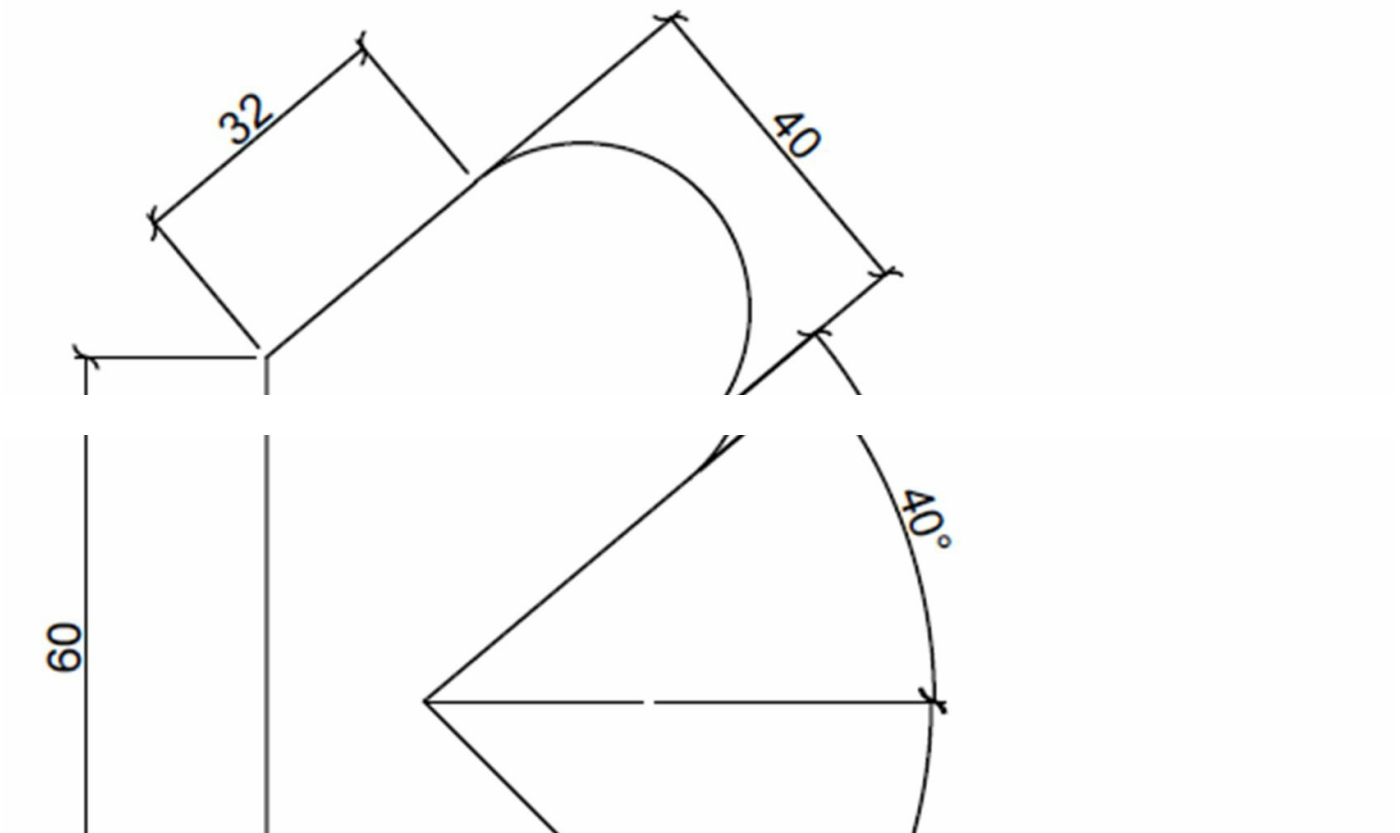


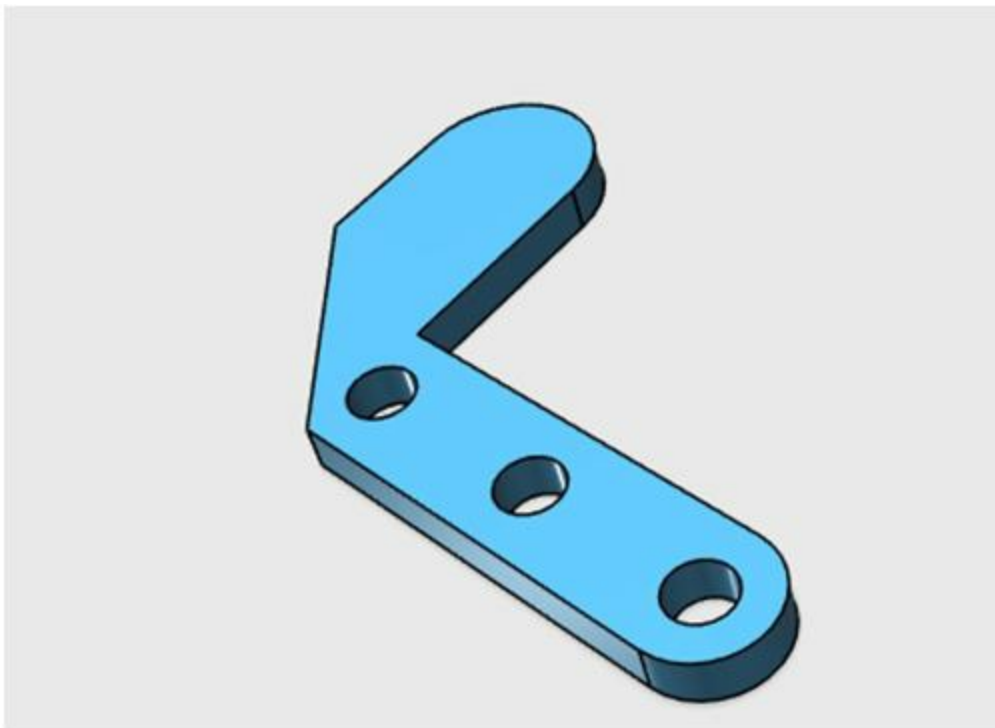
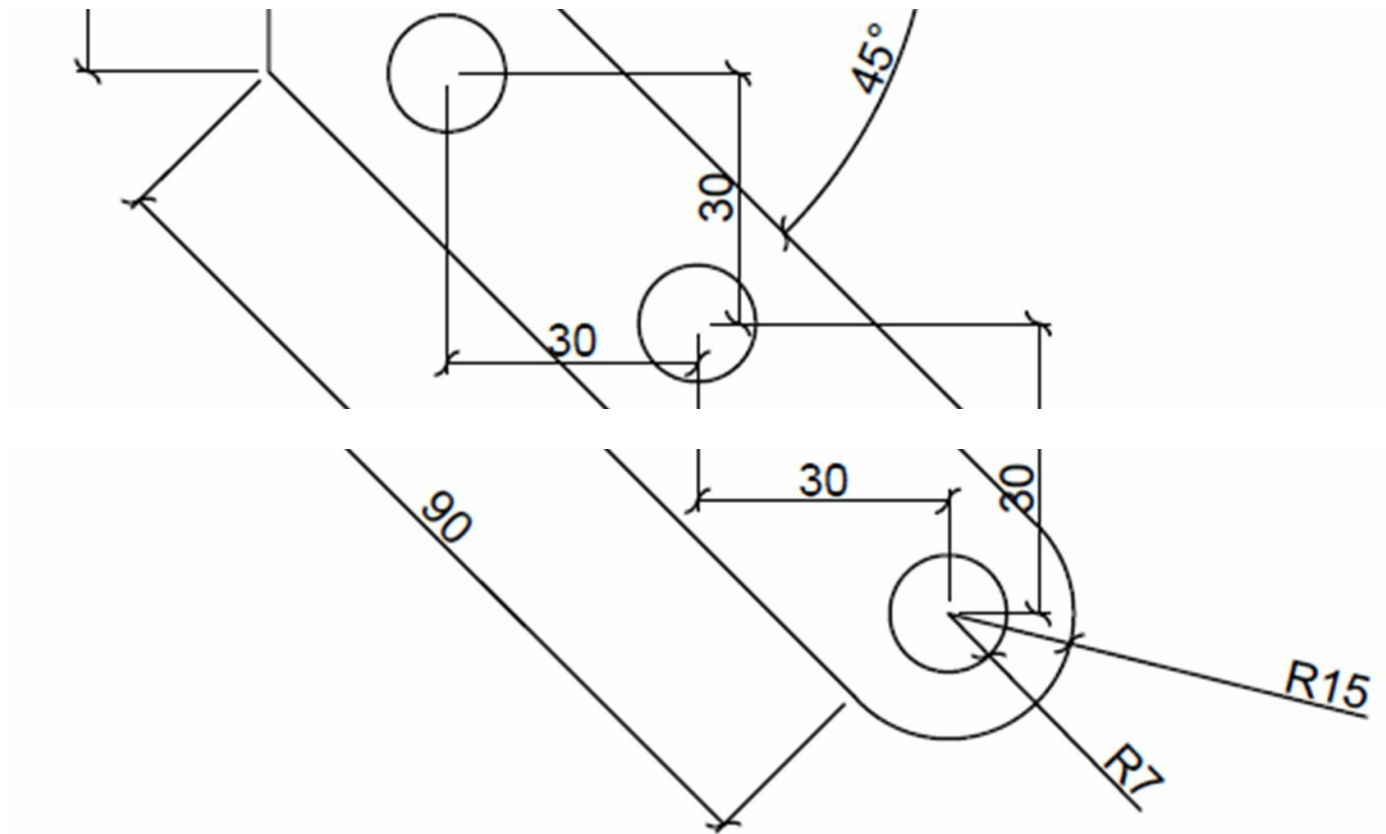


EXERCISE – PRE COMPLEX TWO

2D

3D





EXERCISE – FLAT ONE

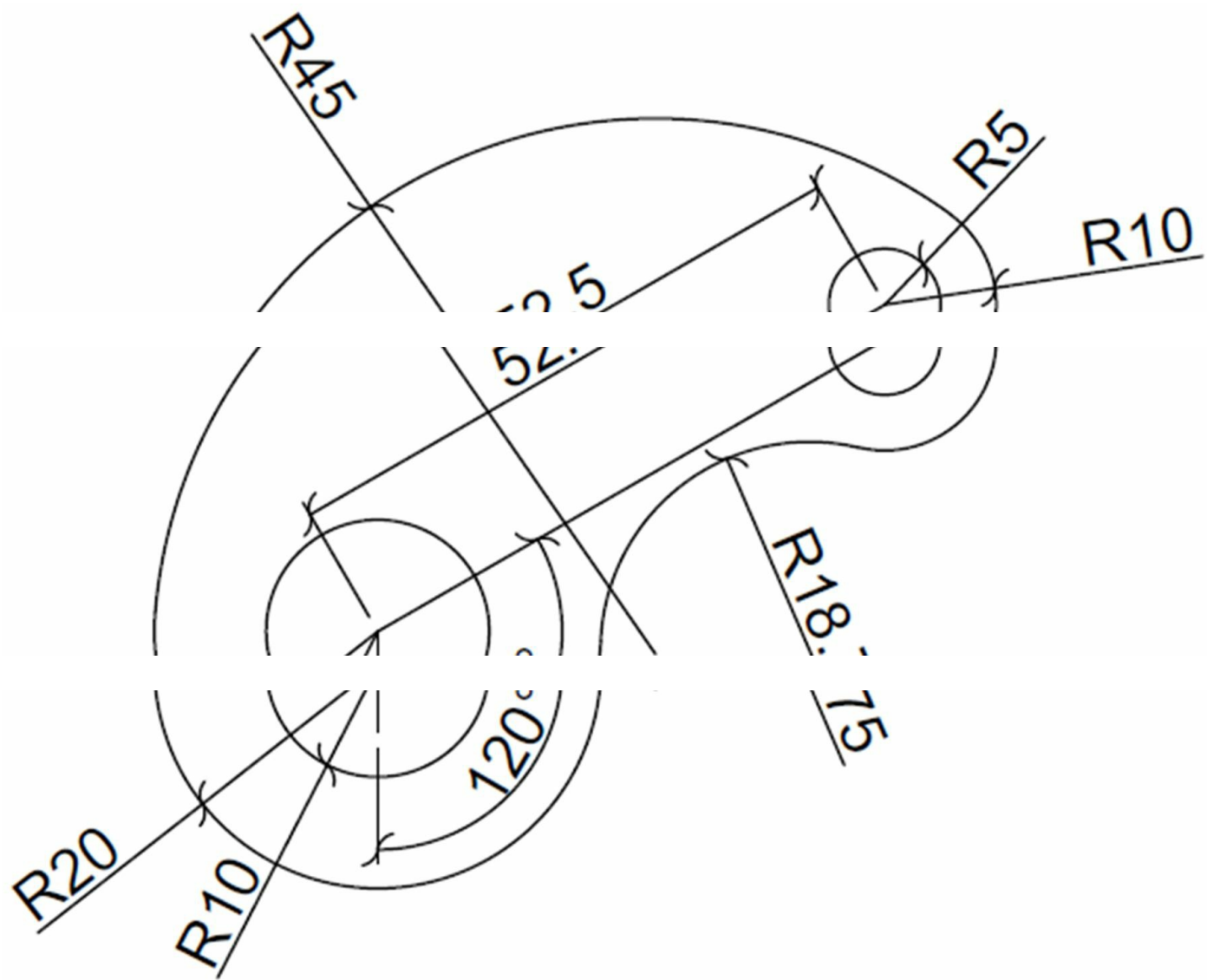
2D

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Thickness = 10 mm

3D

EXERCISE – FLAT TWO

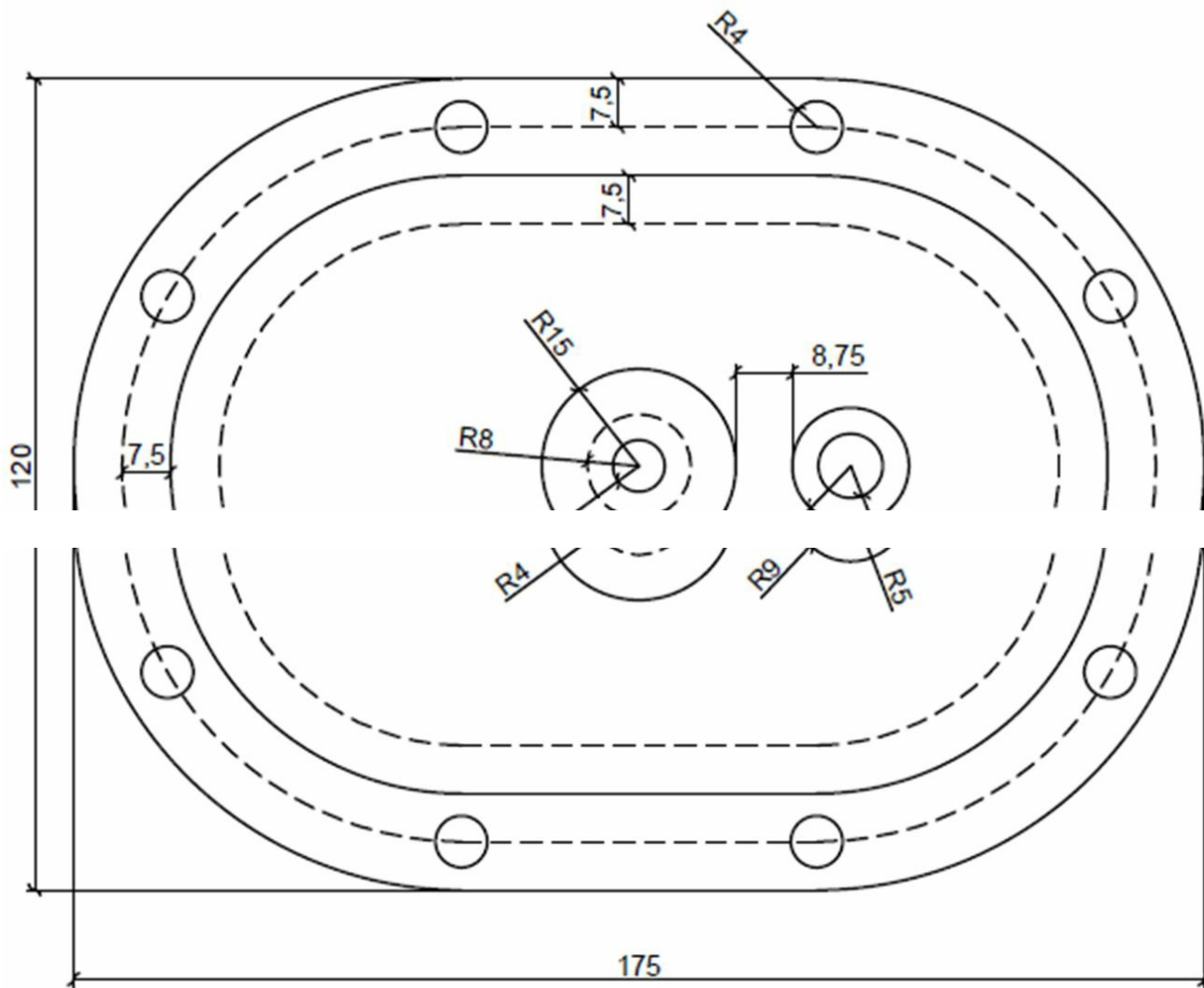
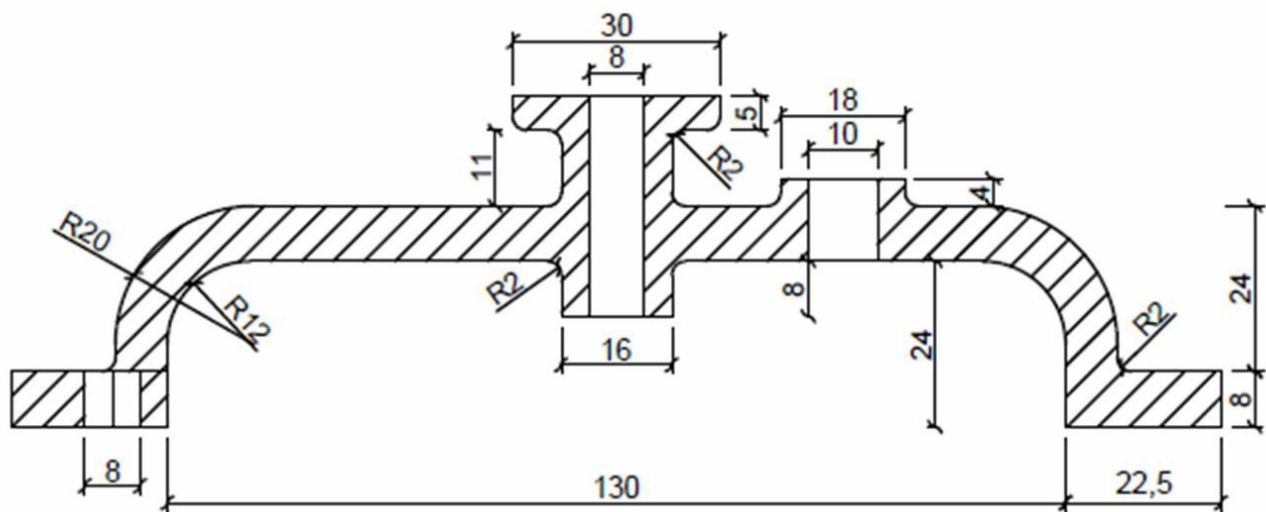


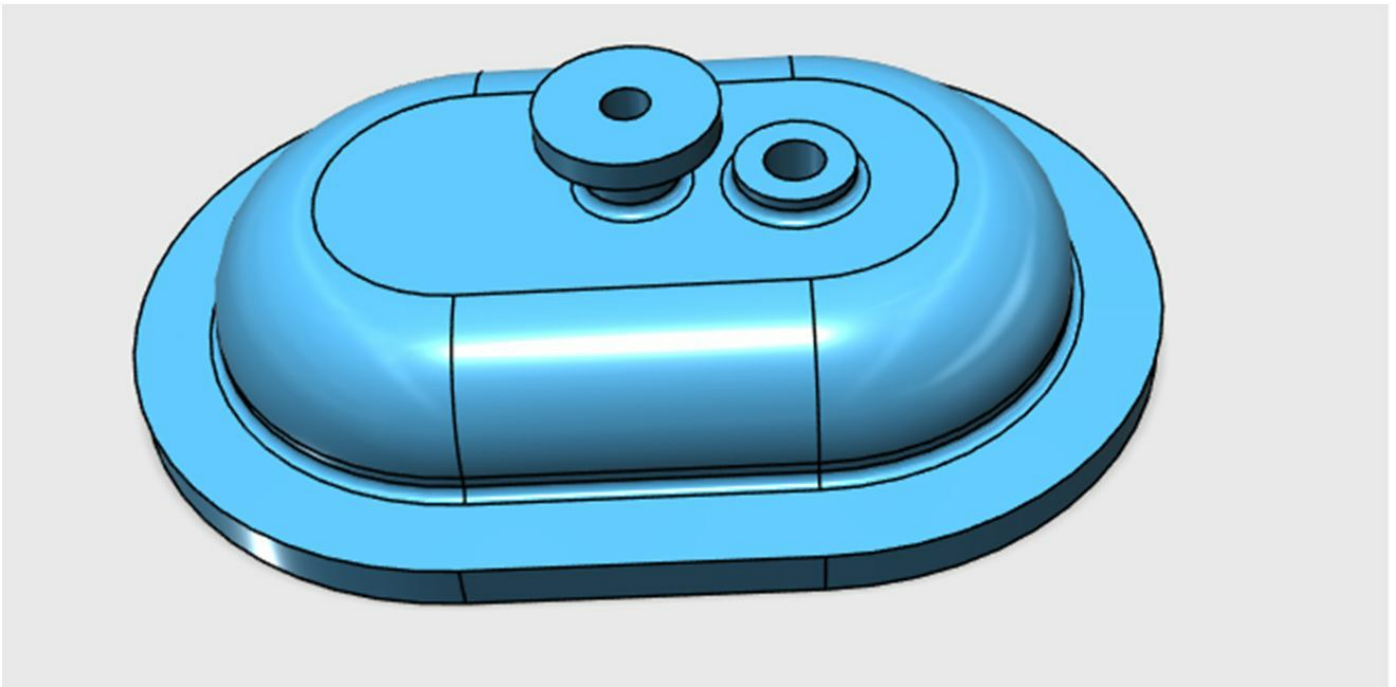


2D

Thickness = 10 mm

3D

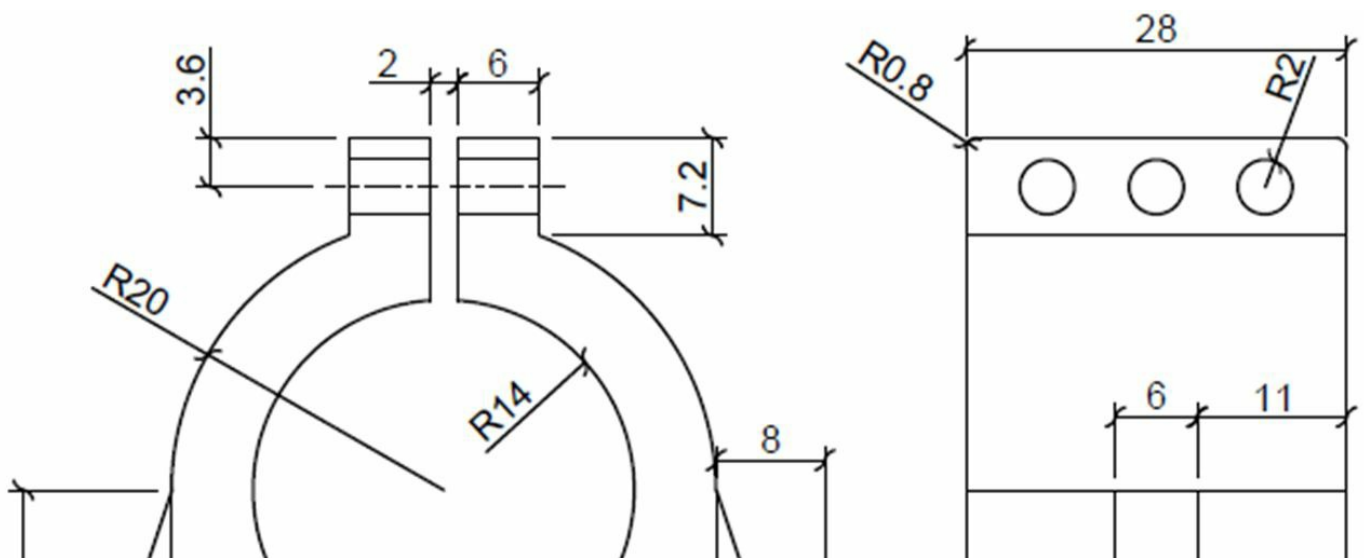


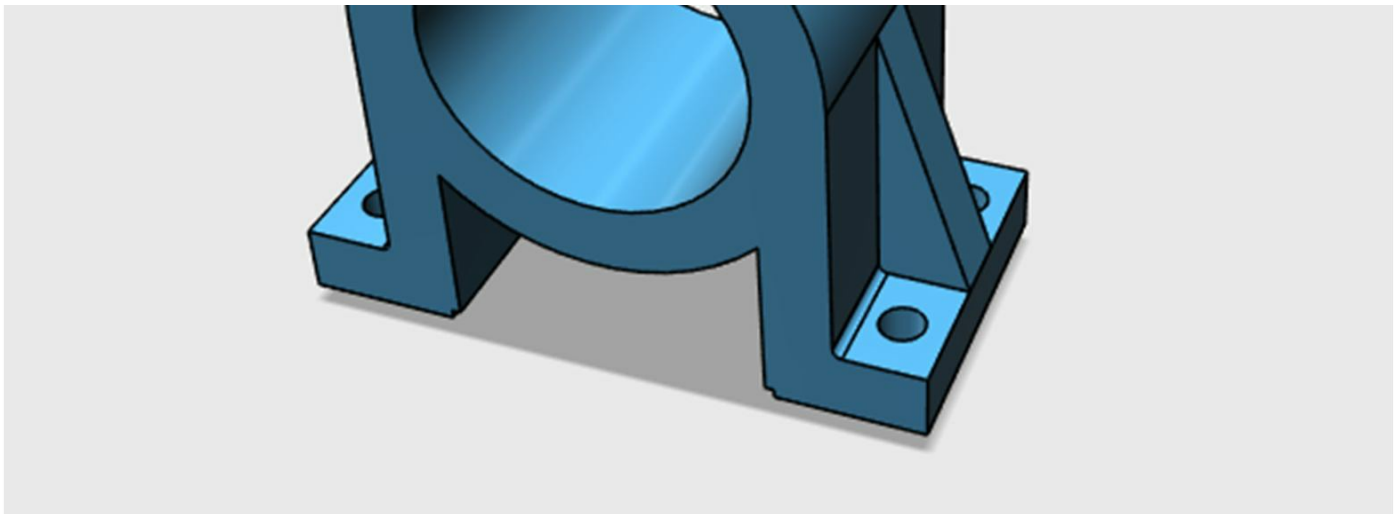
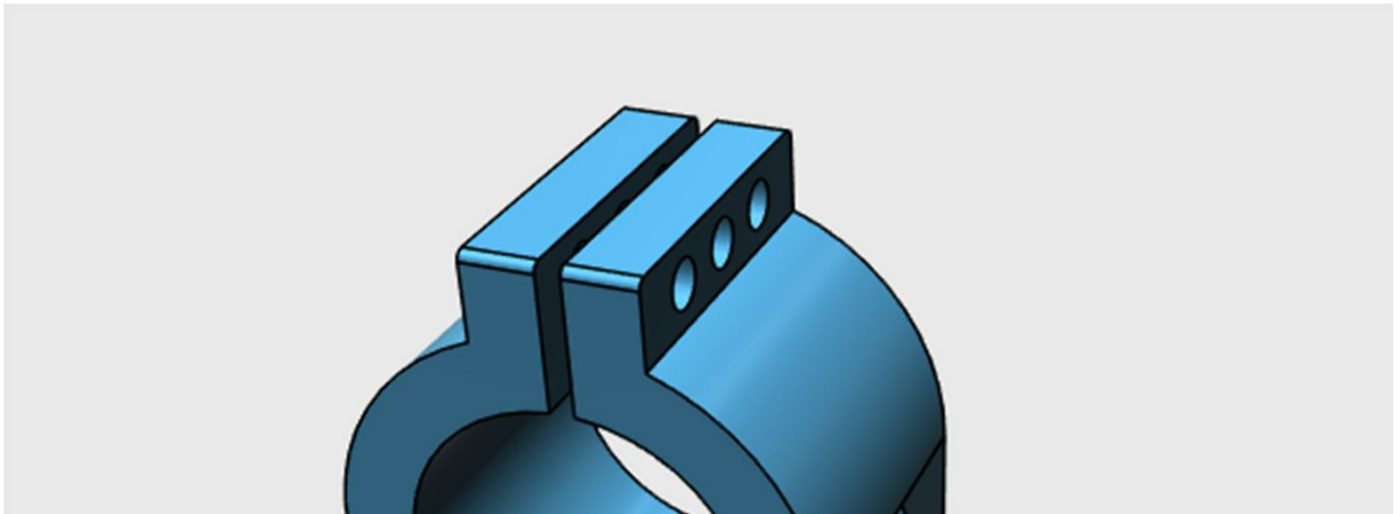
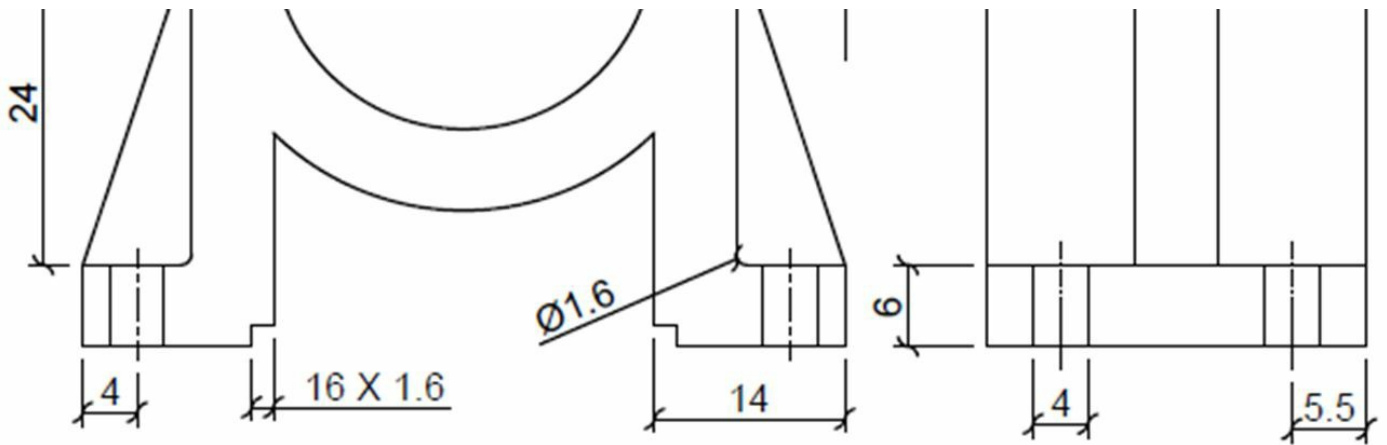


EXERCISE – MECHANICAL PART TWO

2D.

3D



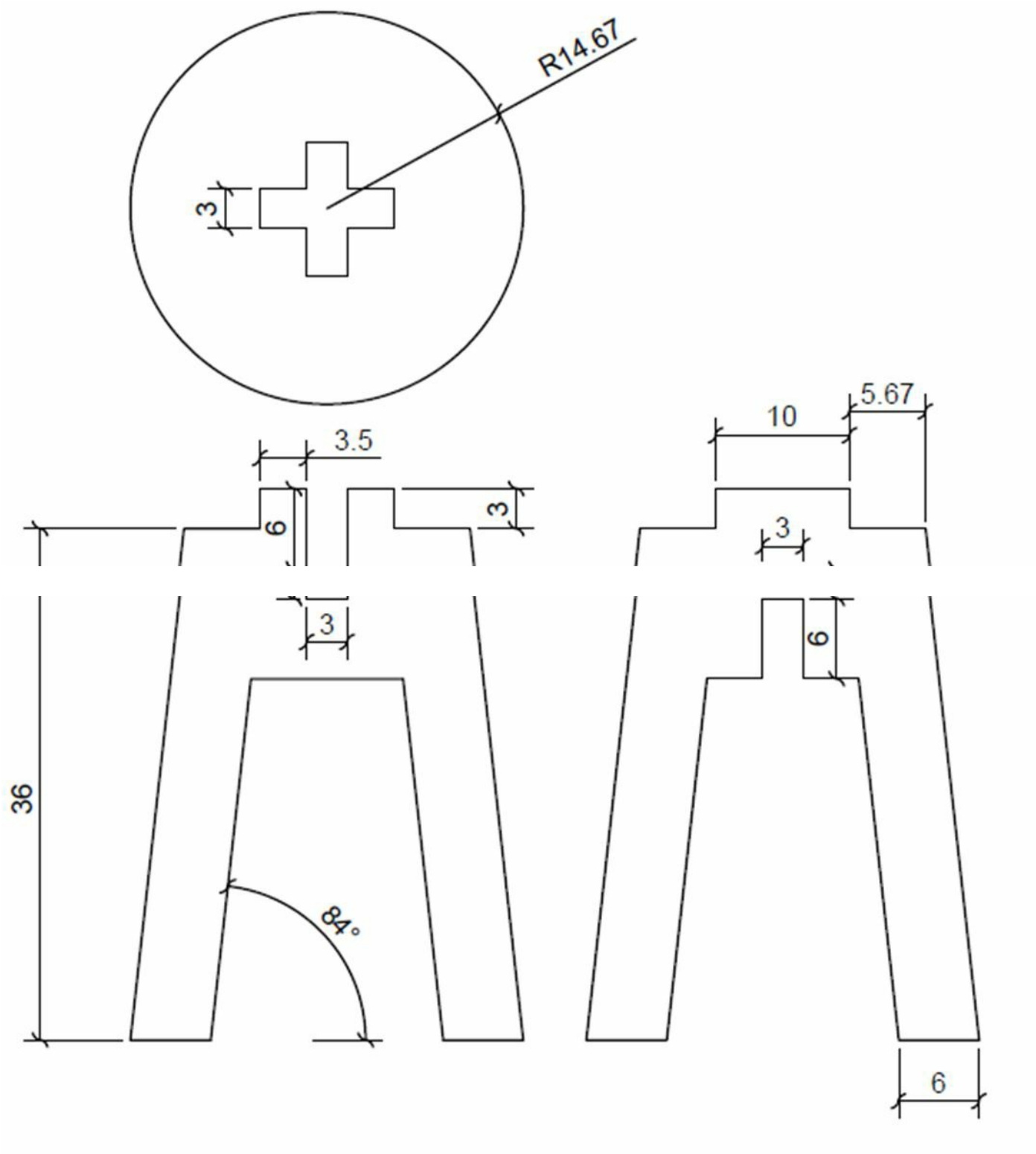


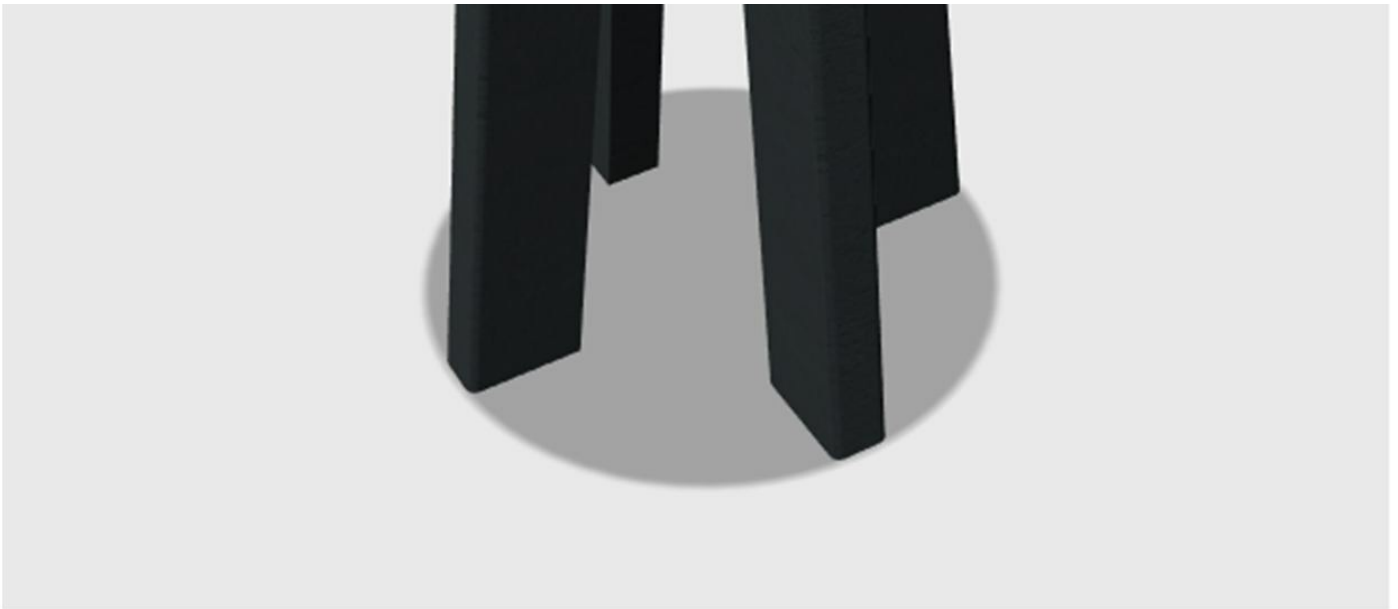
EXERCISE – MECHANICAL PART THREE

2D

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3D

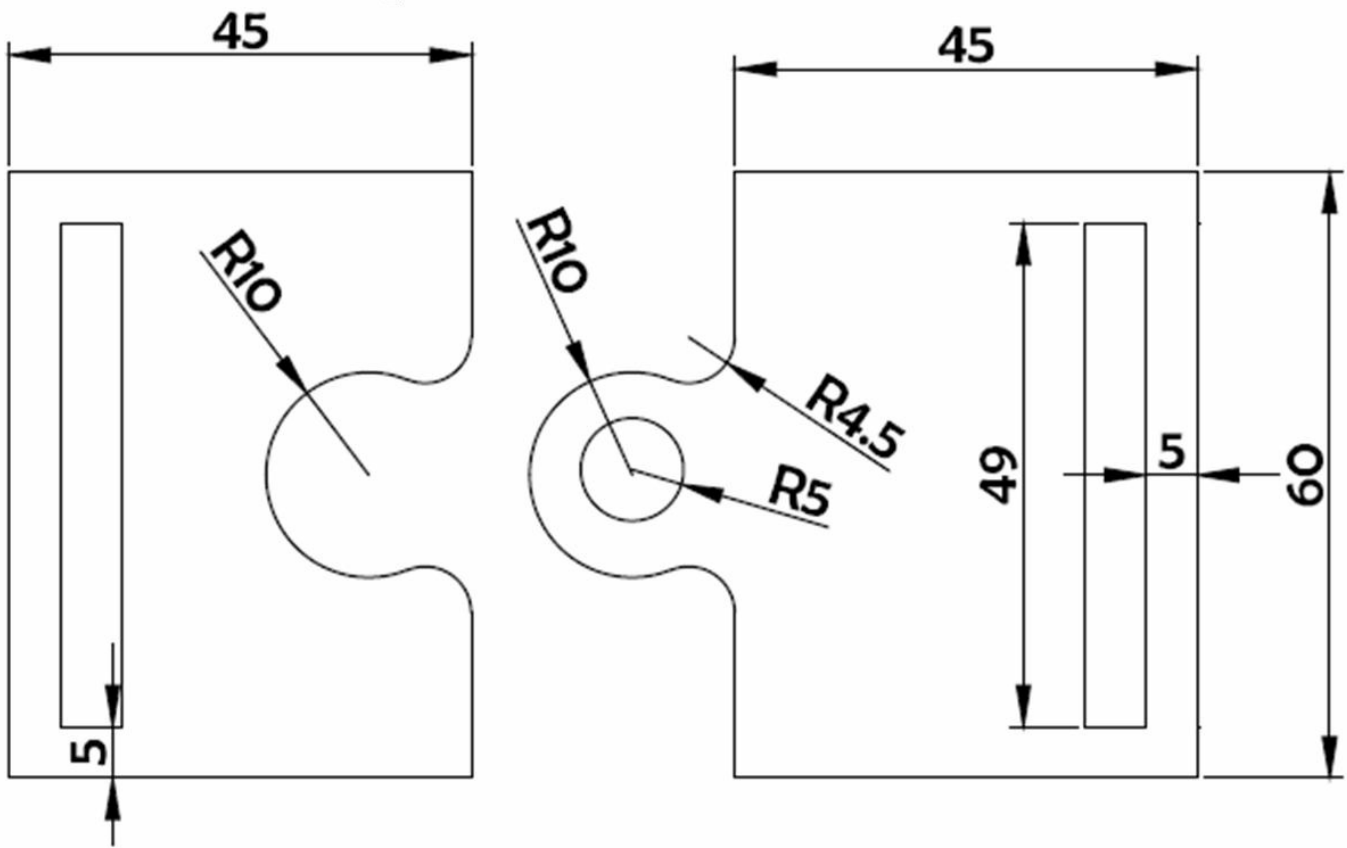


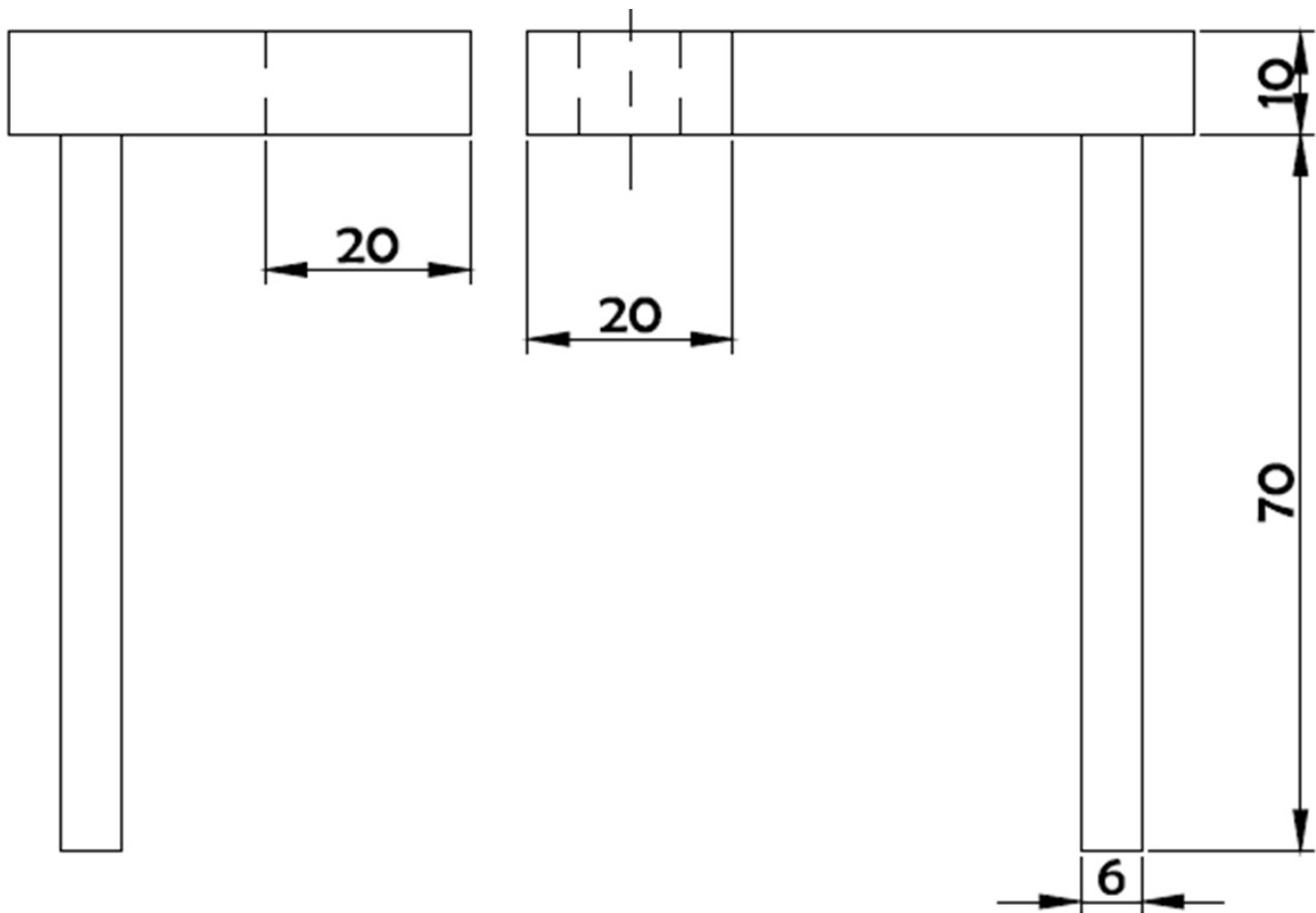


EXERCISE – STOOL ONE

2D

3D





EXERCISE – A TABLE

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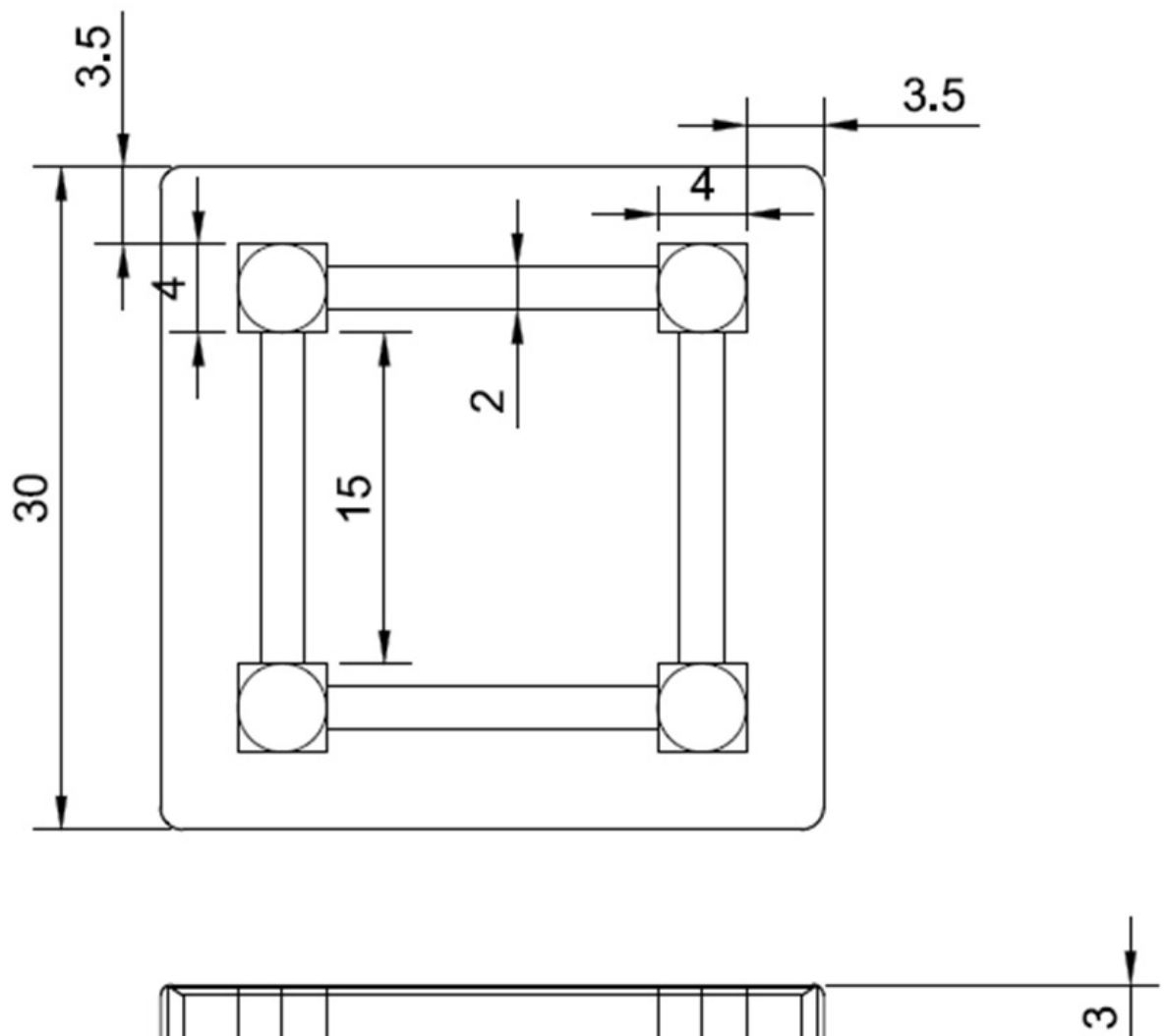
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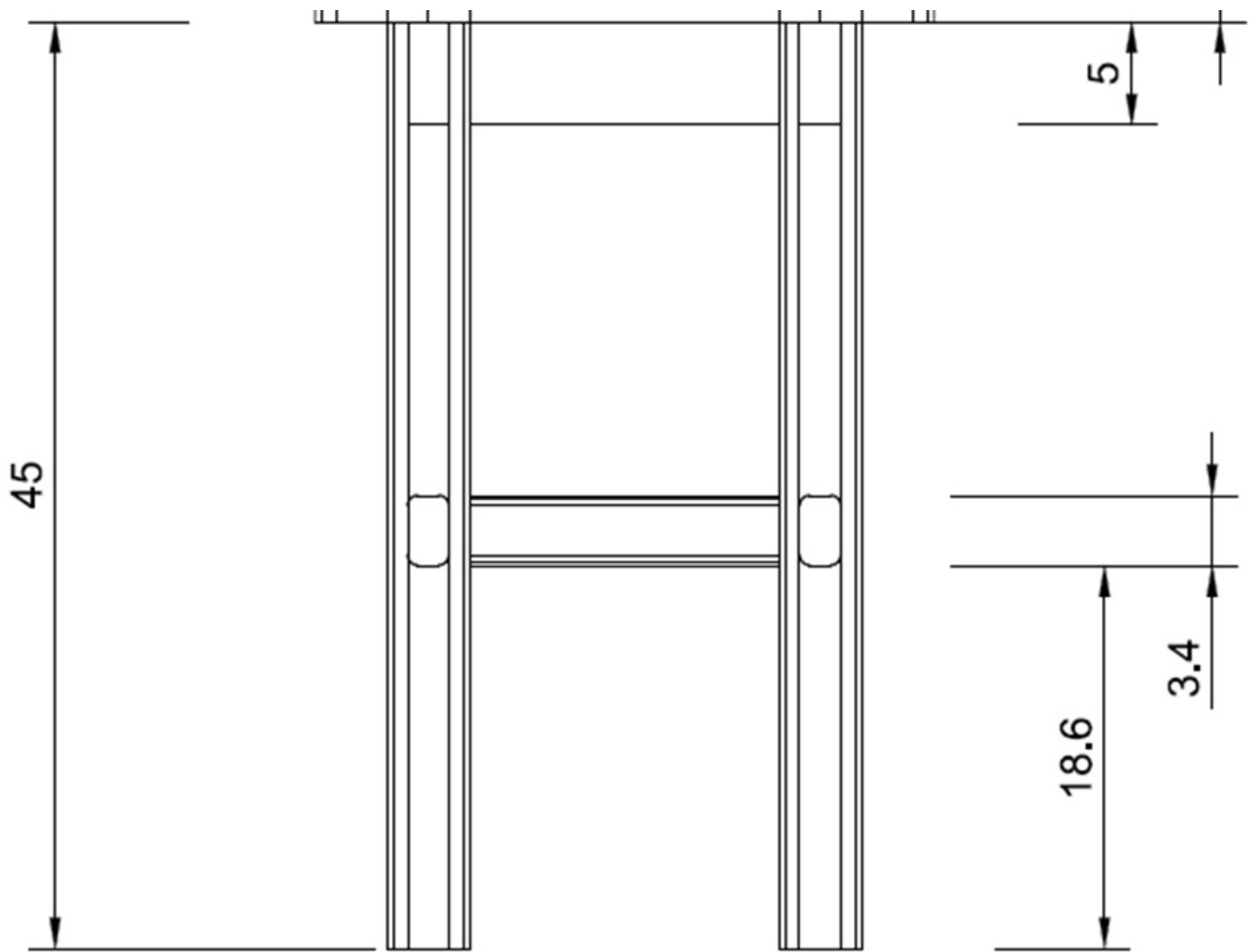
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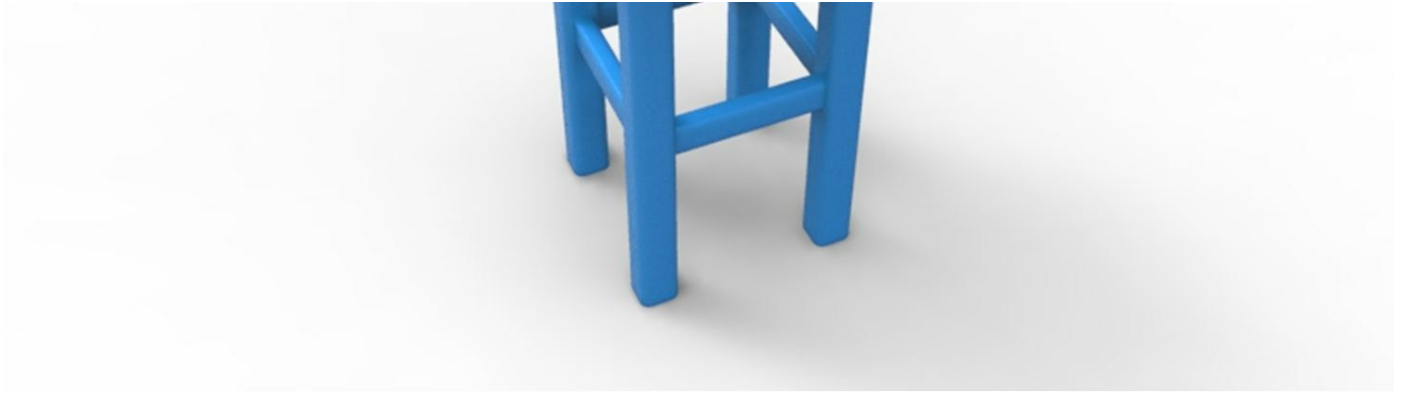
3D

EXERCISE – STOOL TWO

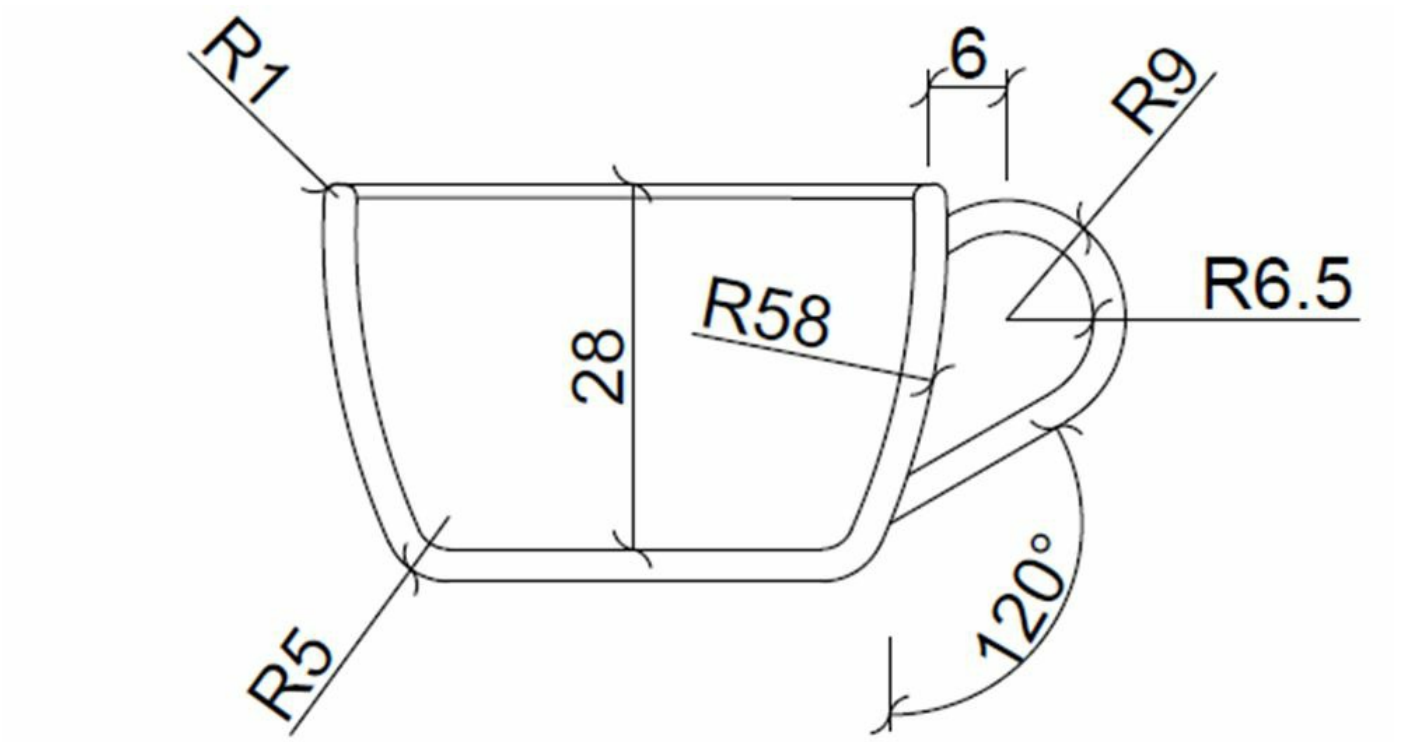
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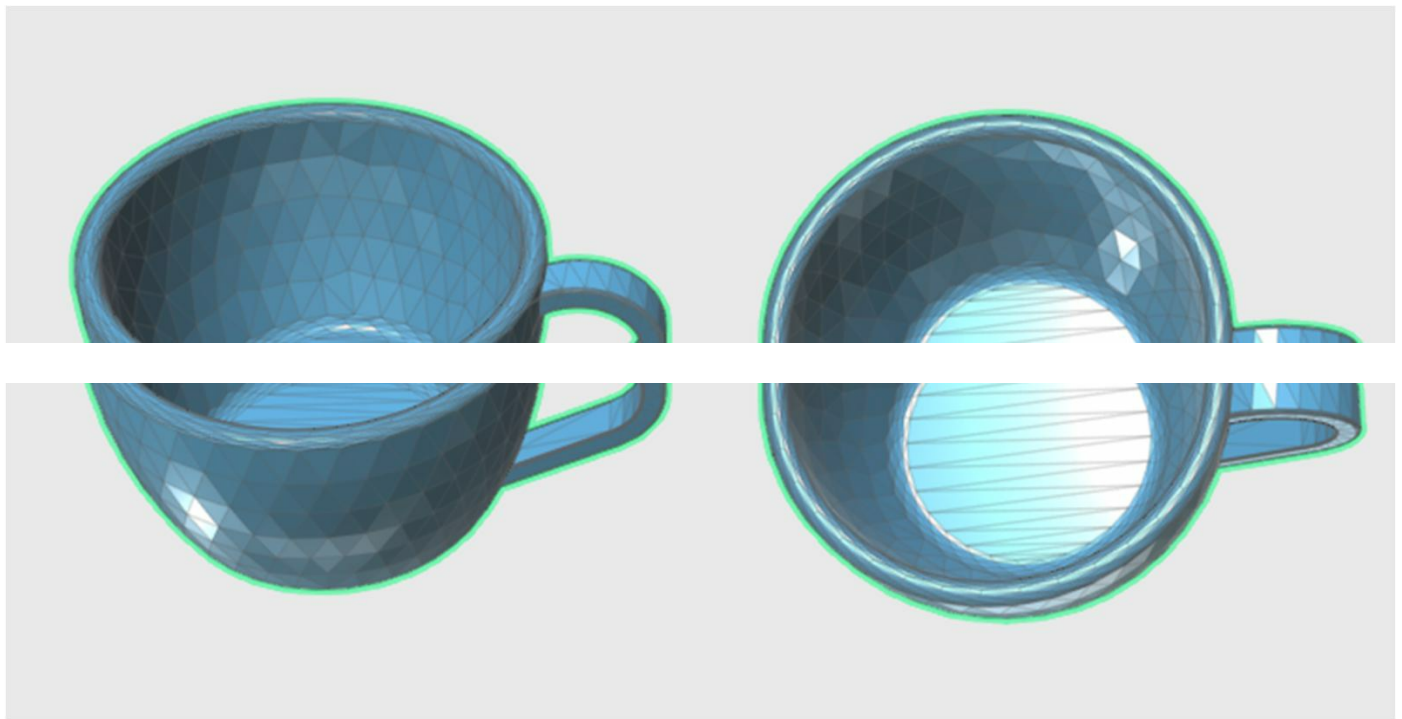
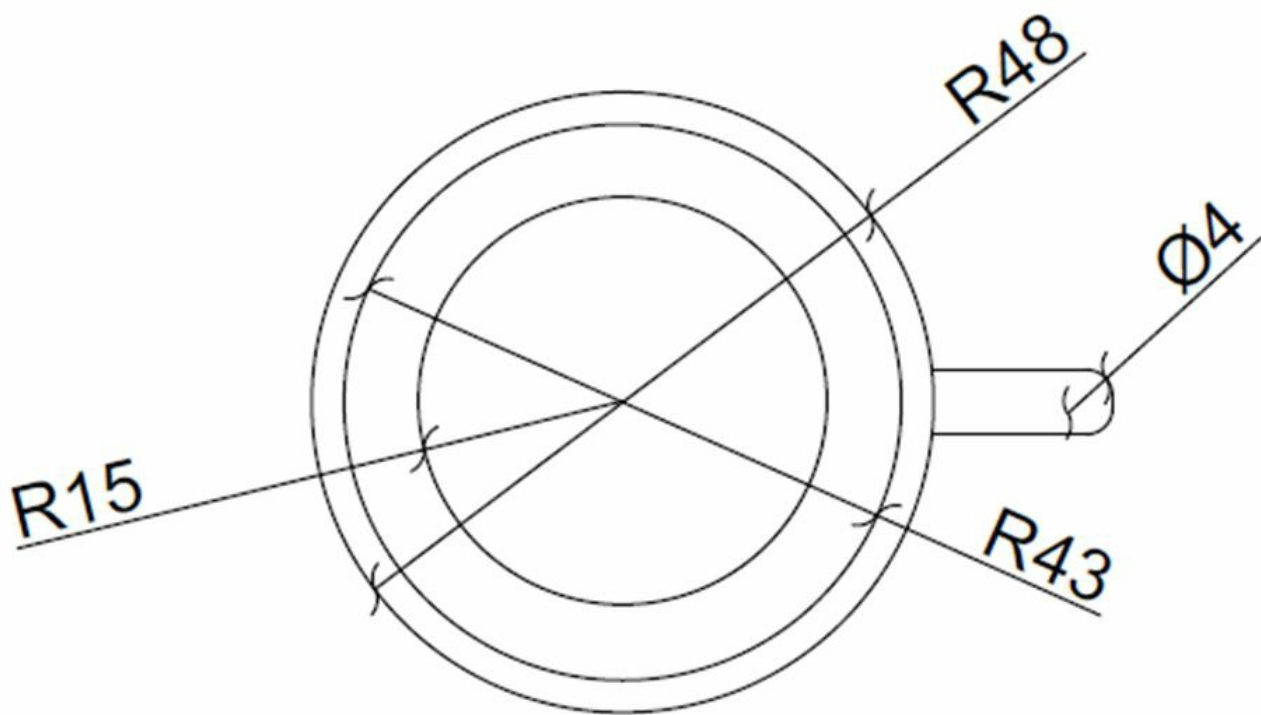






3D

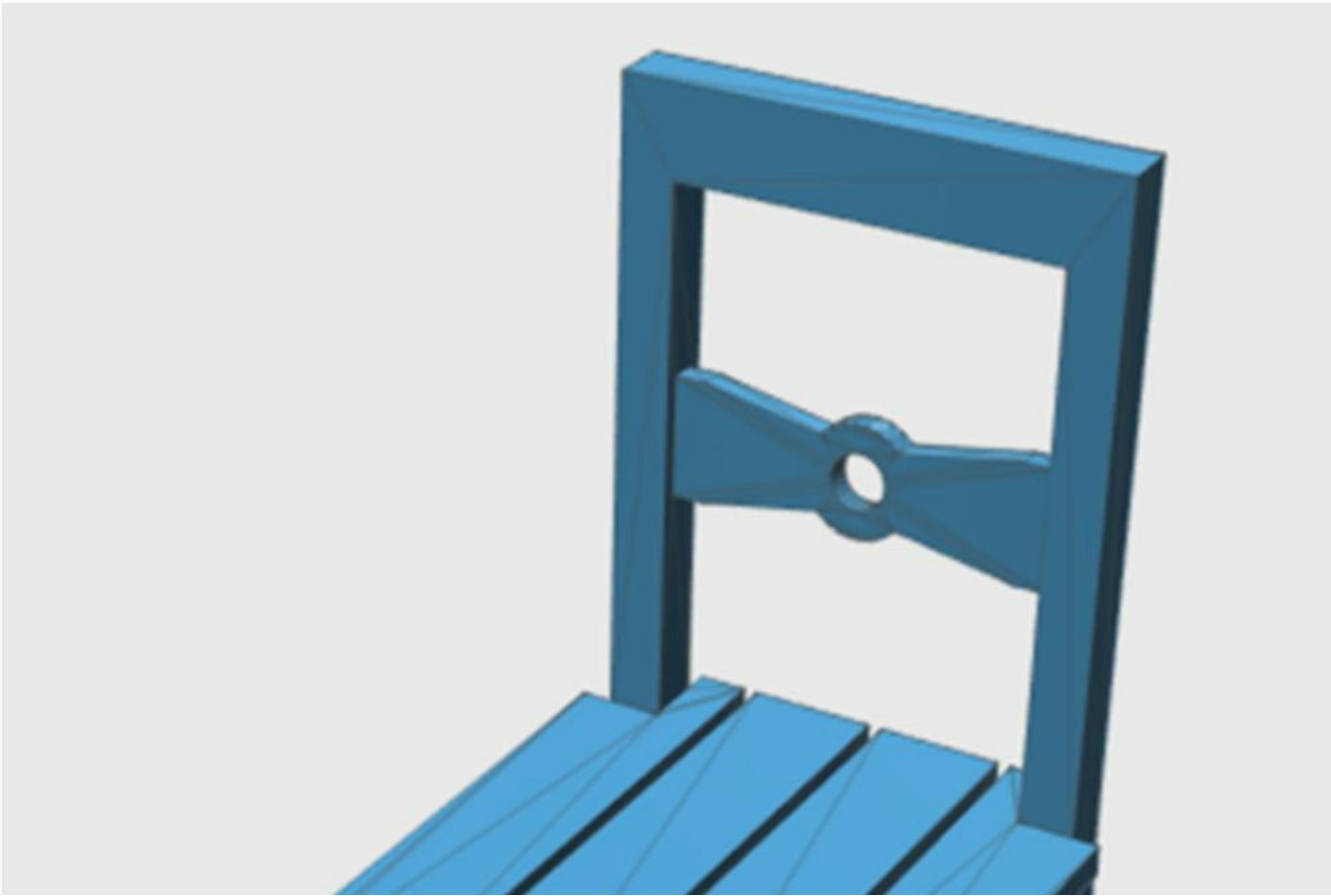
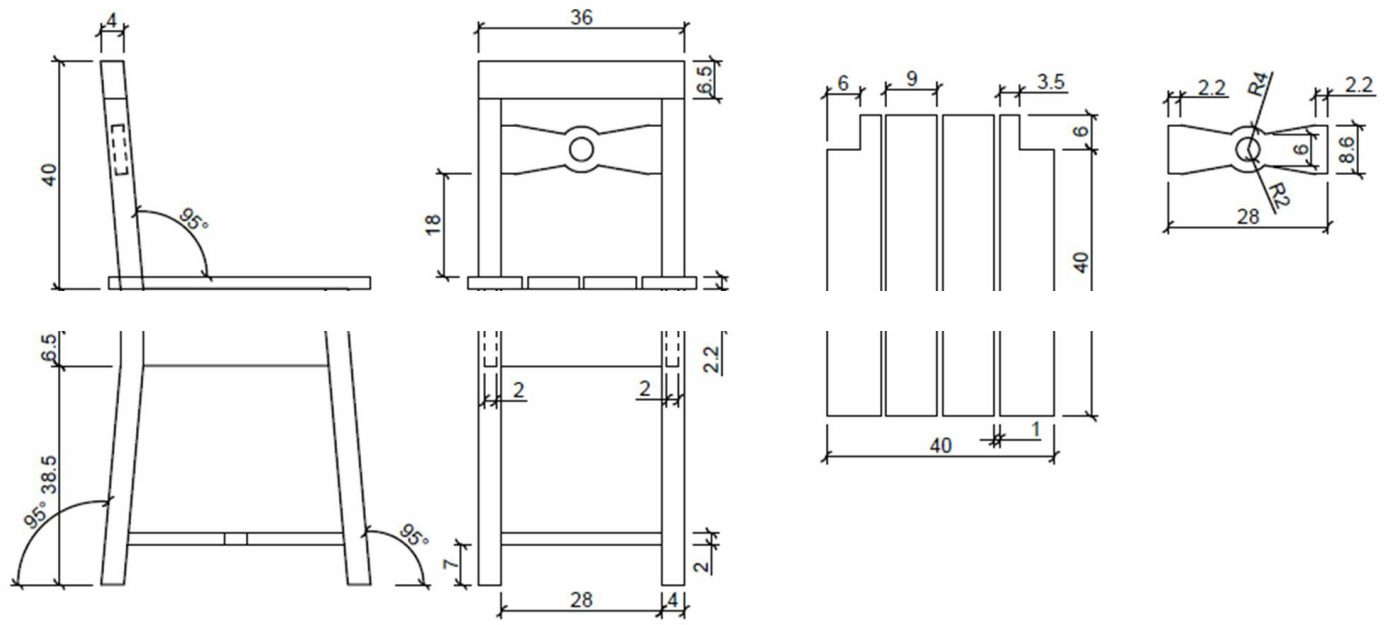




EXERCISE – TEE CUP

2D

3D

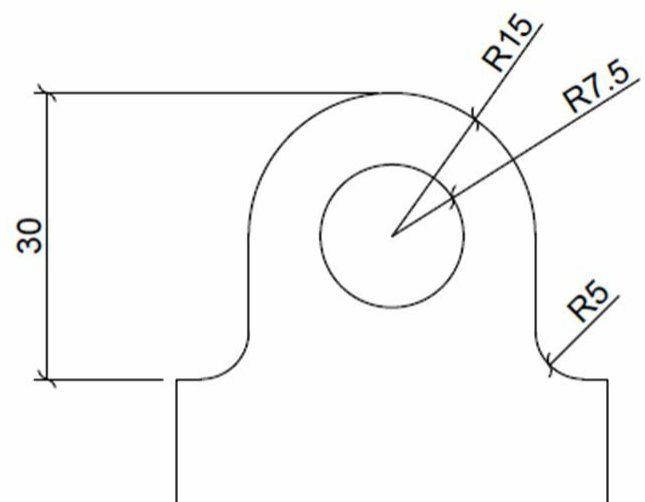
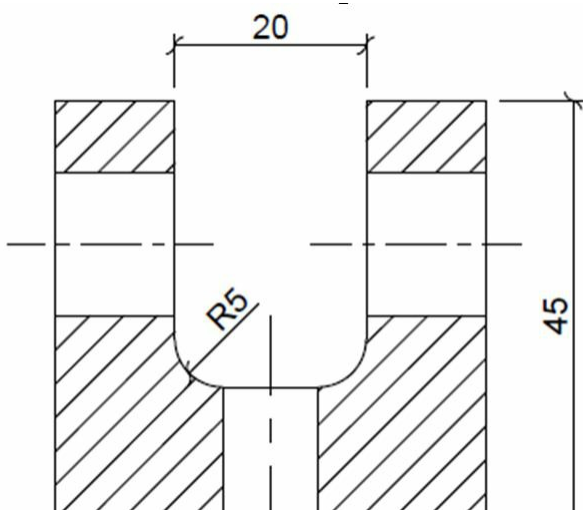


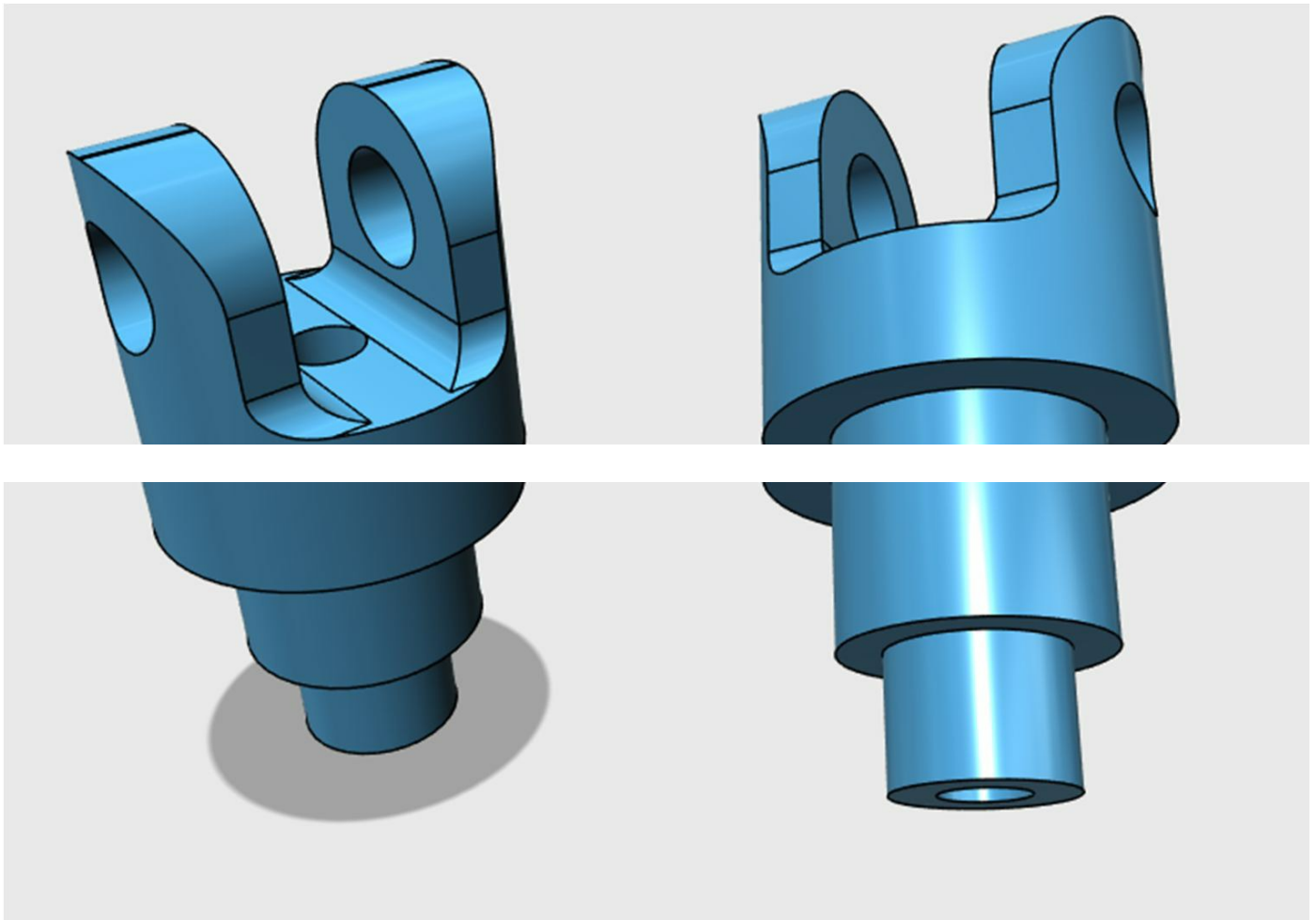
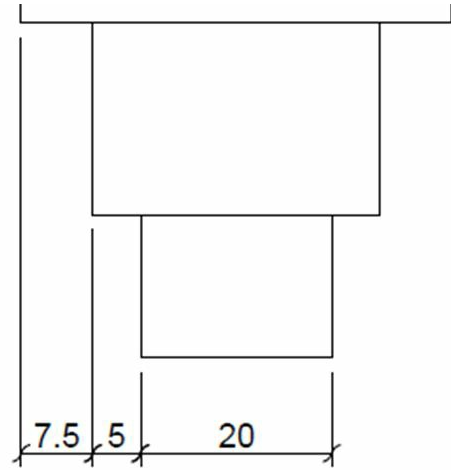
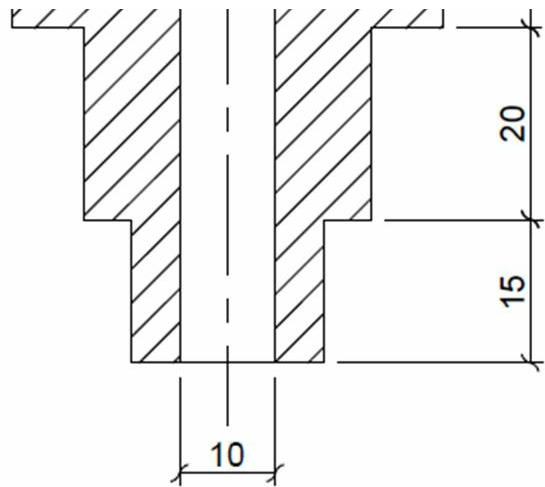


EXERCISE - CHAIR

2D

3D





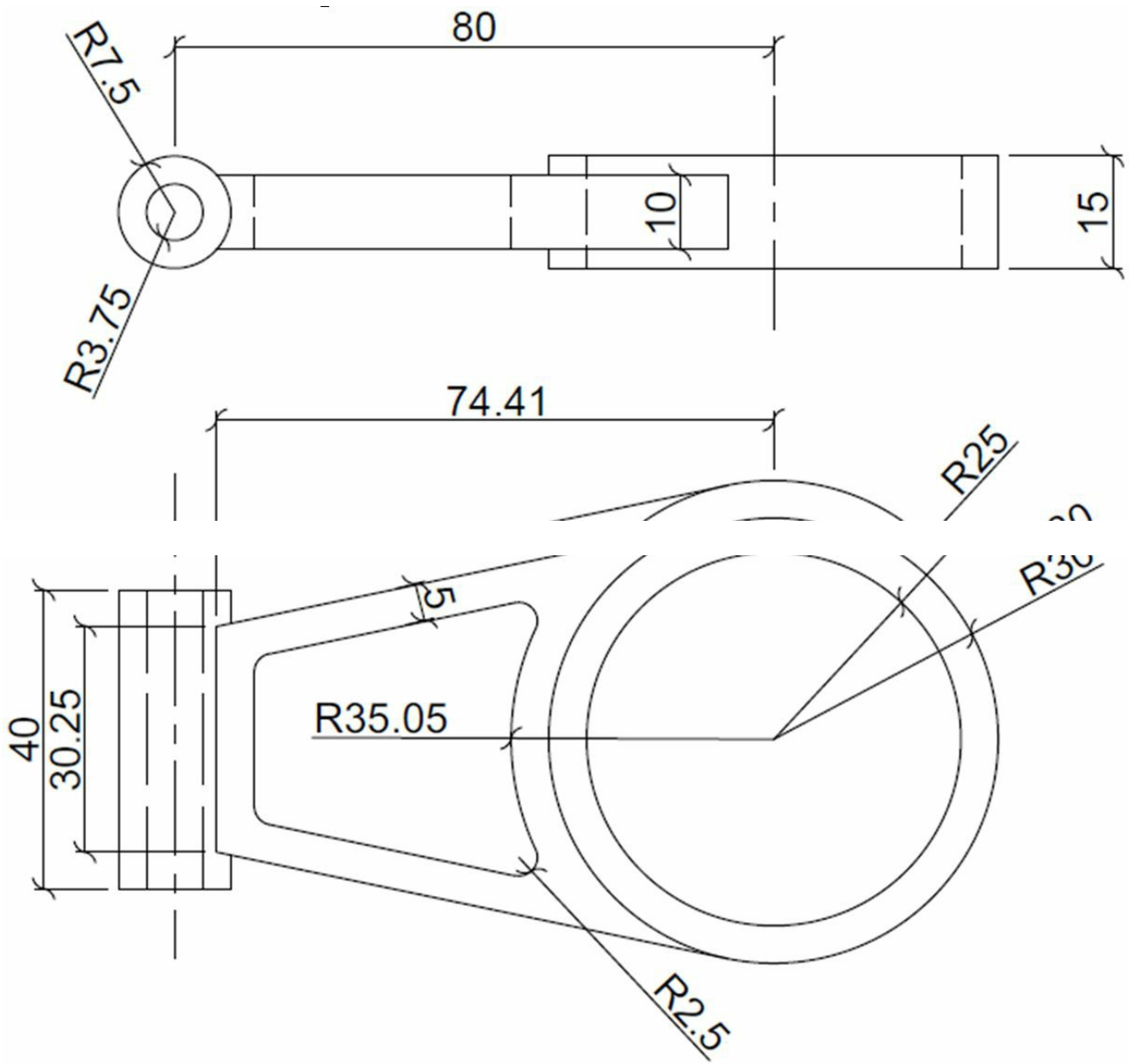
EXERCISE – MECHANICAL PART FOUR

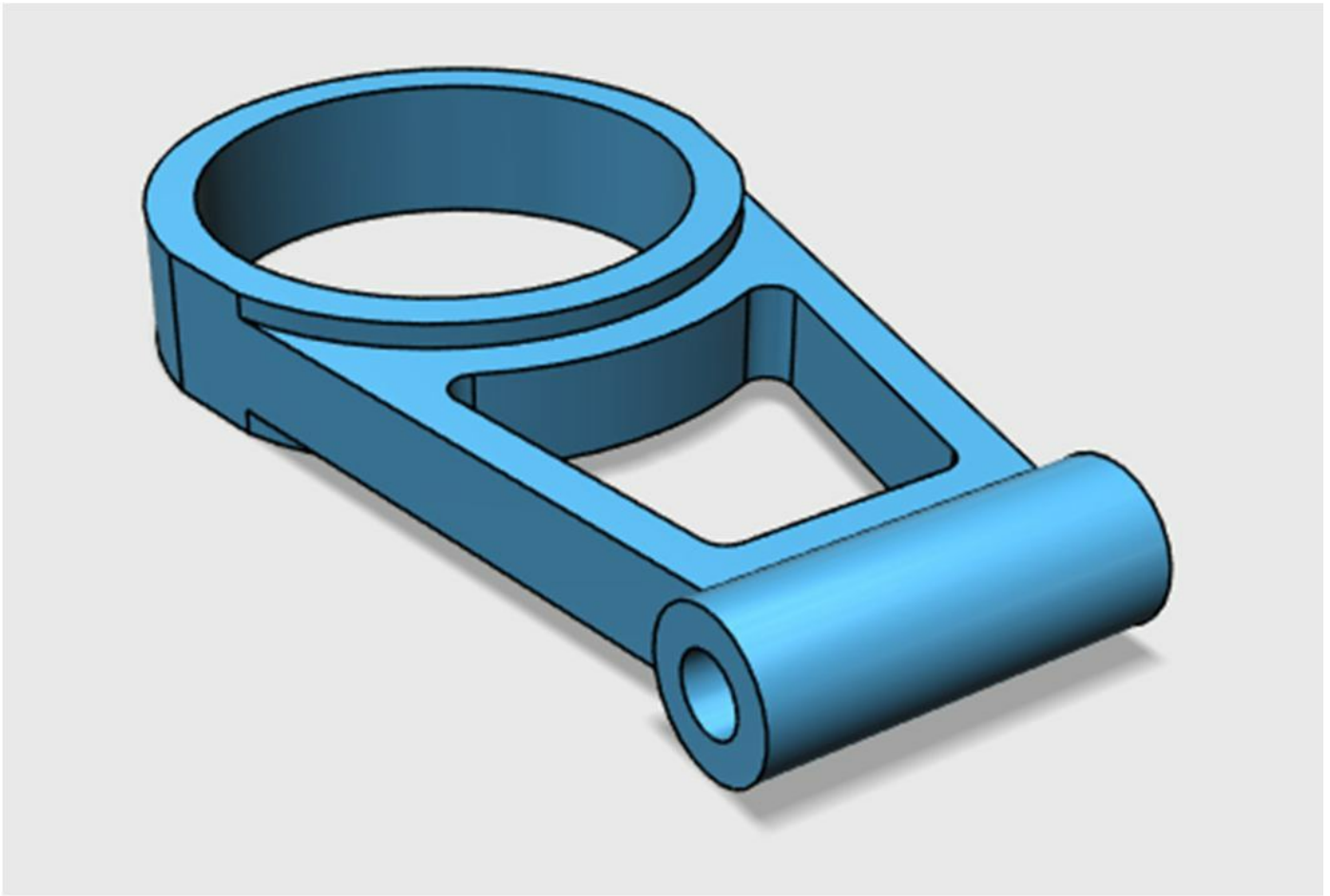
2D

All FILLETs non specified are R5

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3D



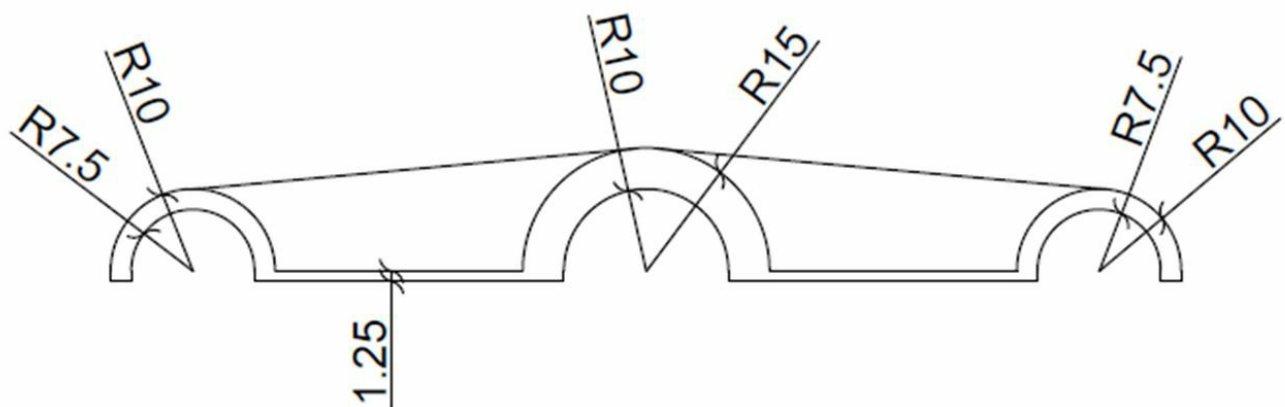


EXERCISE – MECHANICAL PART FIVE

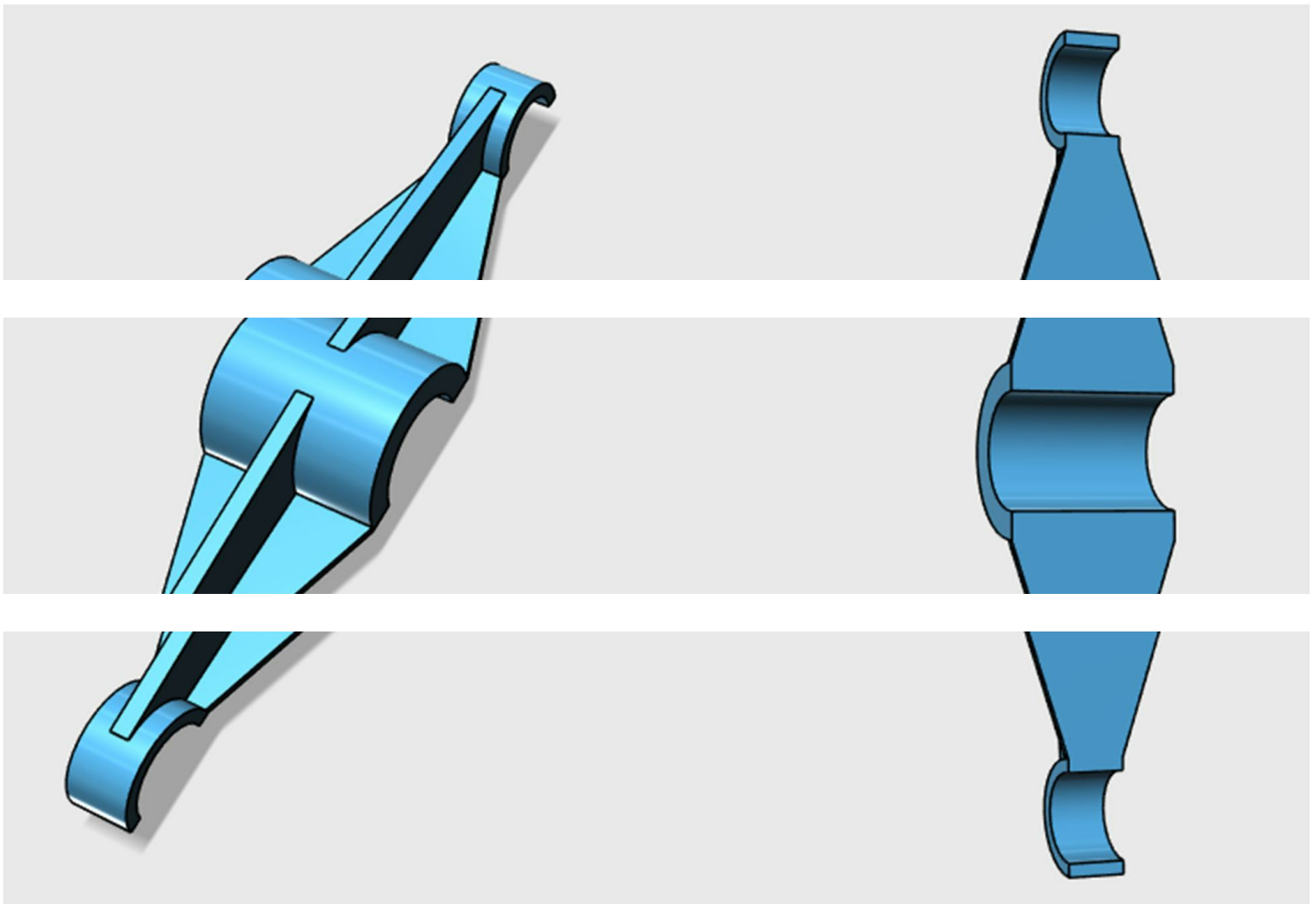
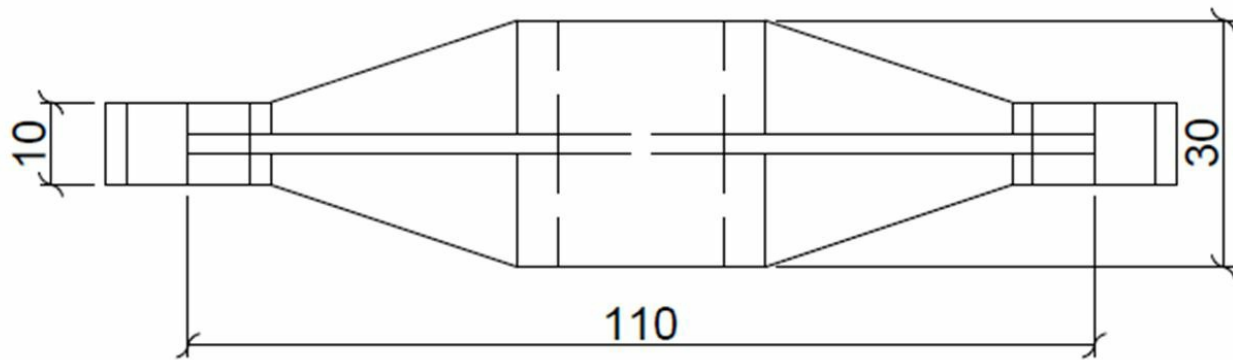
2D

All FILLETs non specified are R2.5

3D



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EXERCISE – MECHANICAL PART SIX

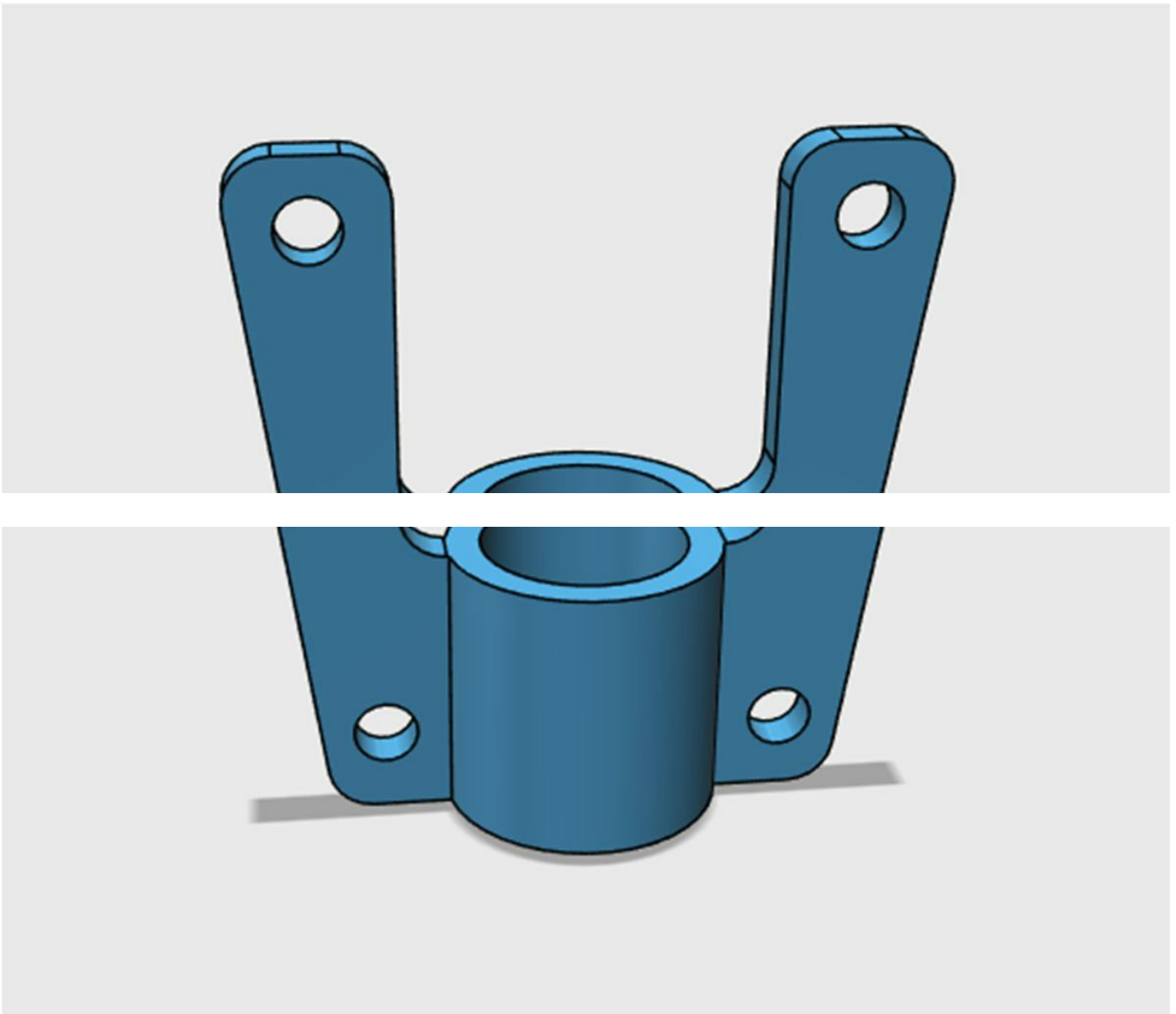
2D

The thickness of the piece in the middle is 2mm

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[illegible]

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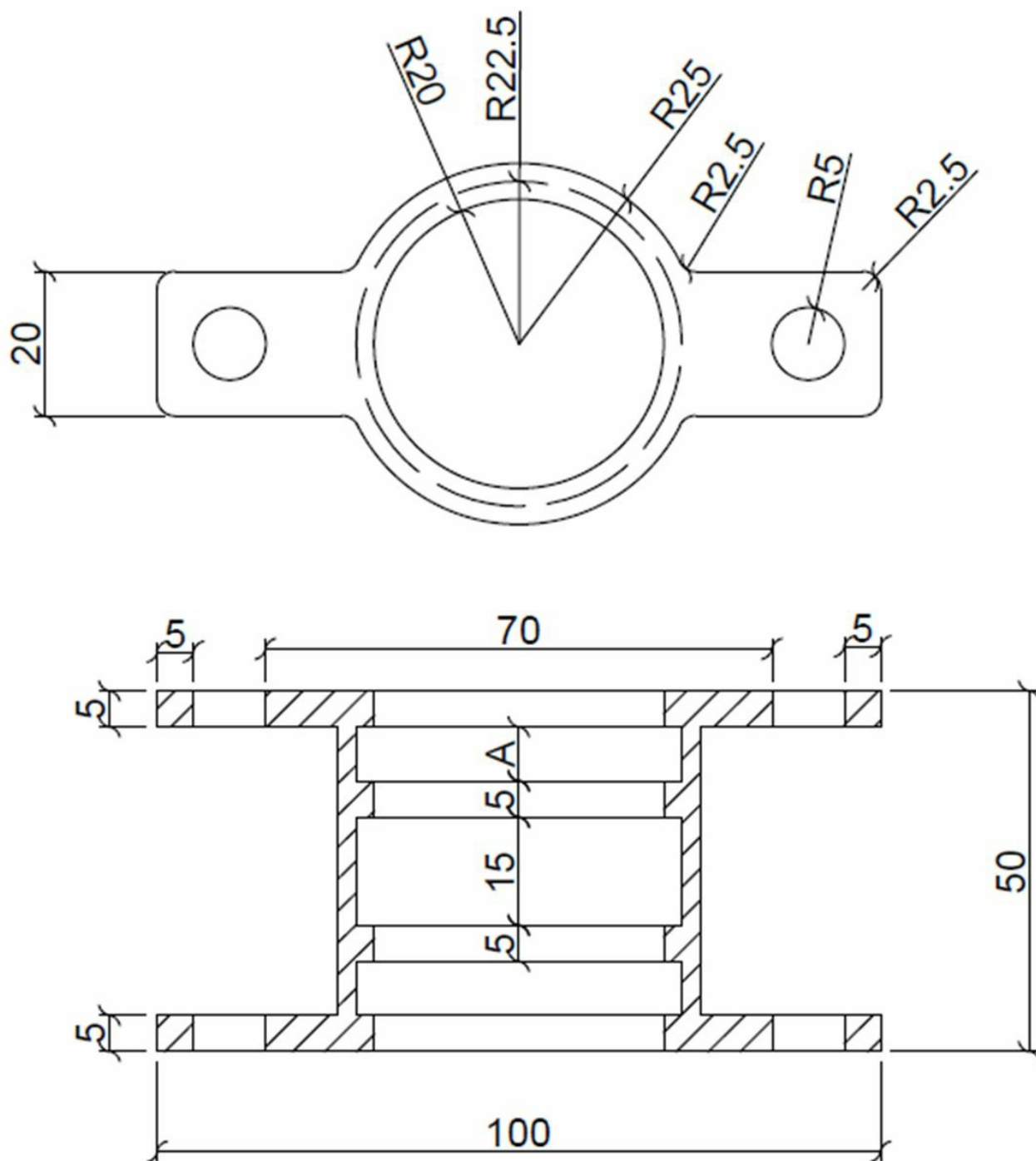


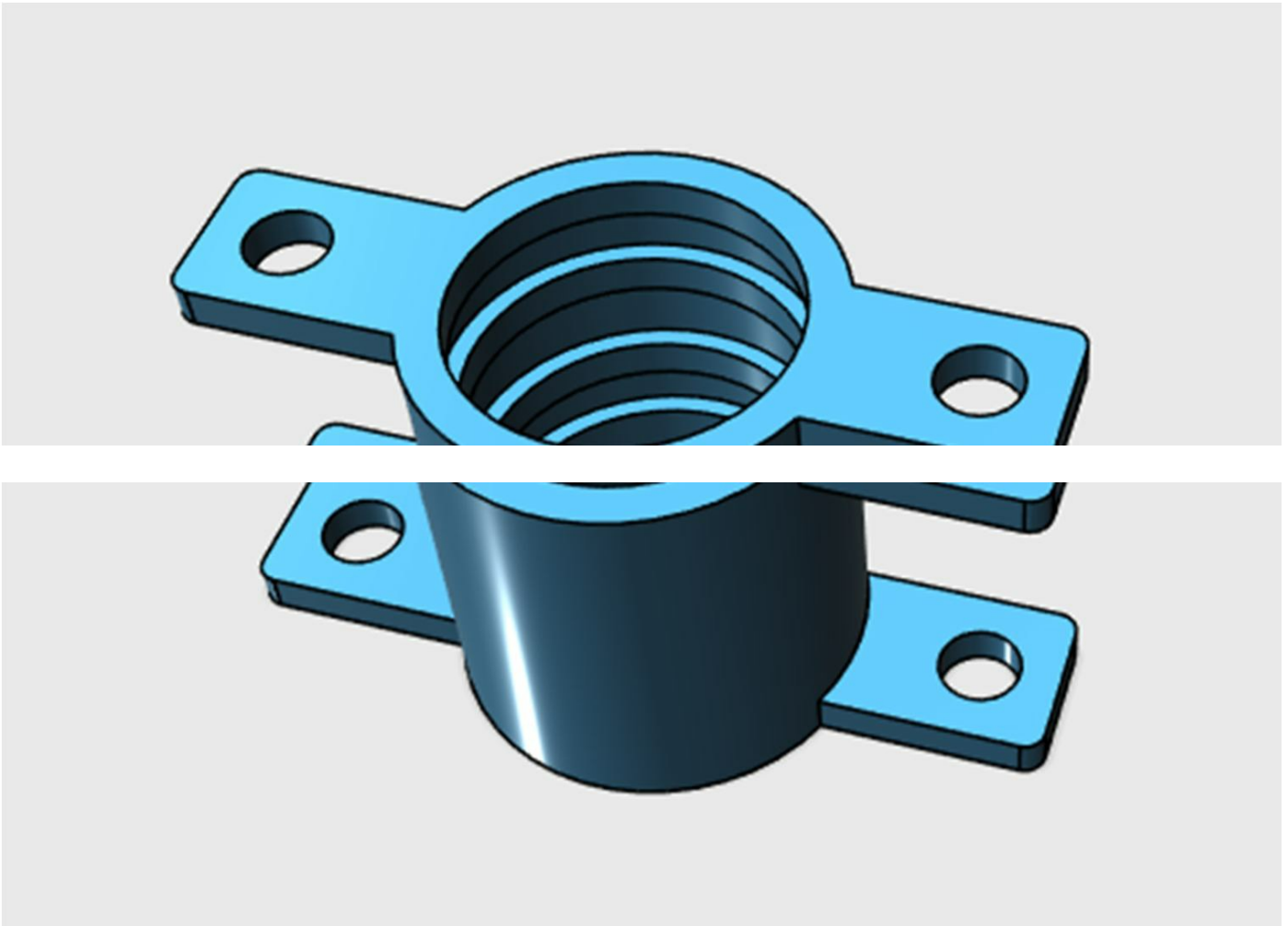
EXERCISE – MECHANICAL PART SEVEN

2D

A = 6.25 mm, All FILLETS non specified are R5

3D



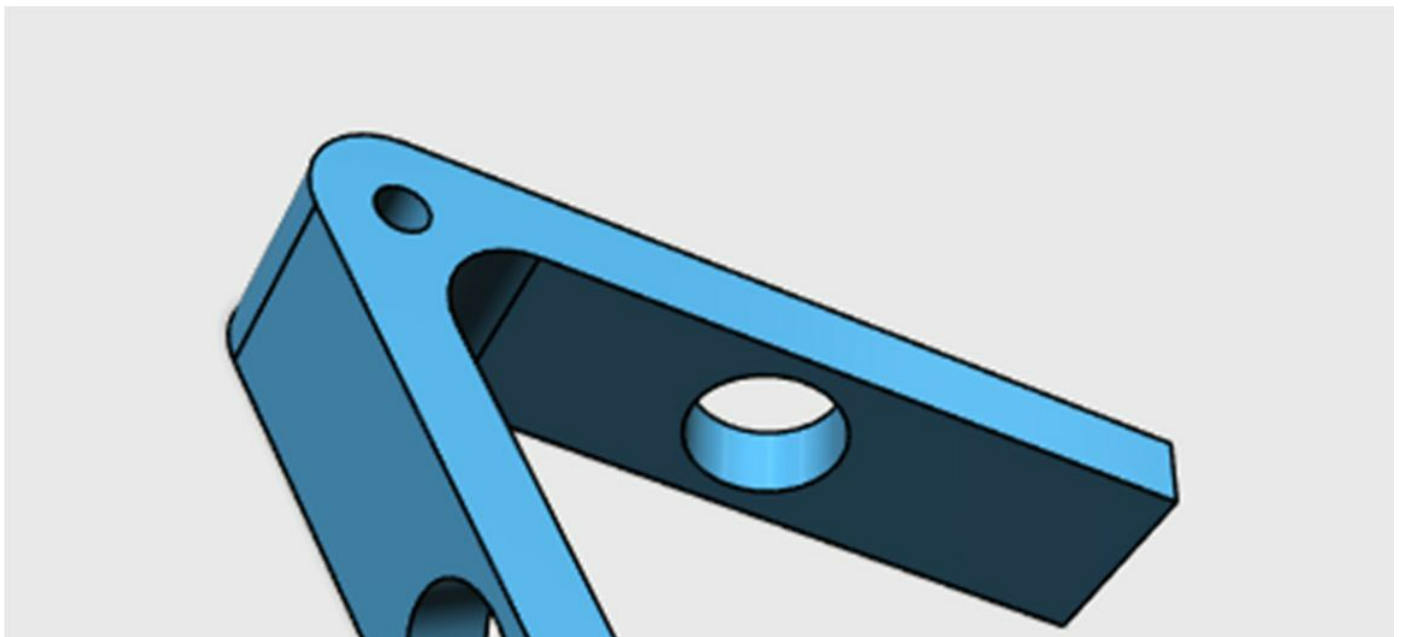
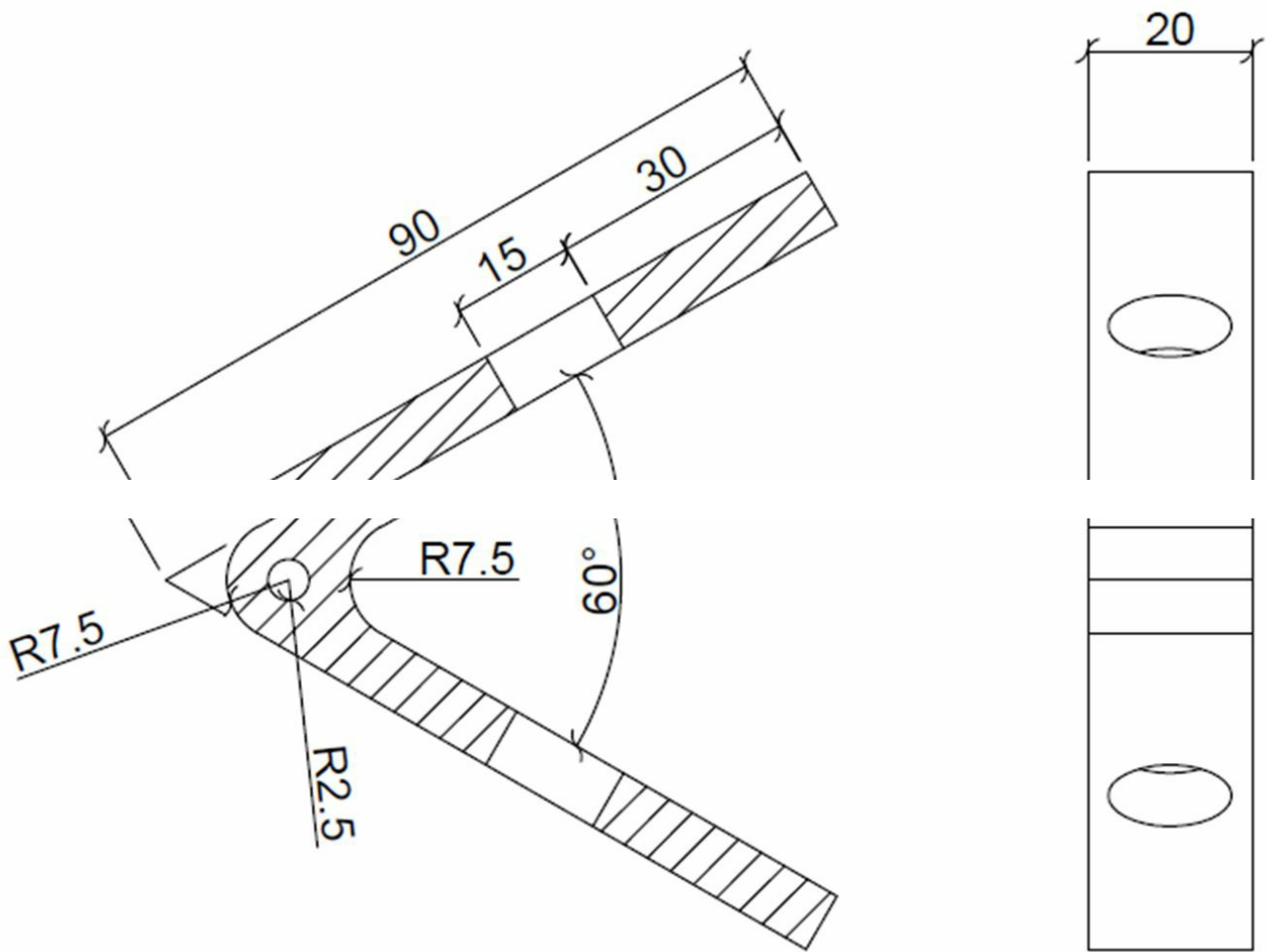


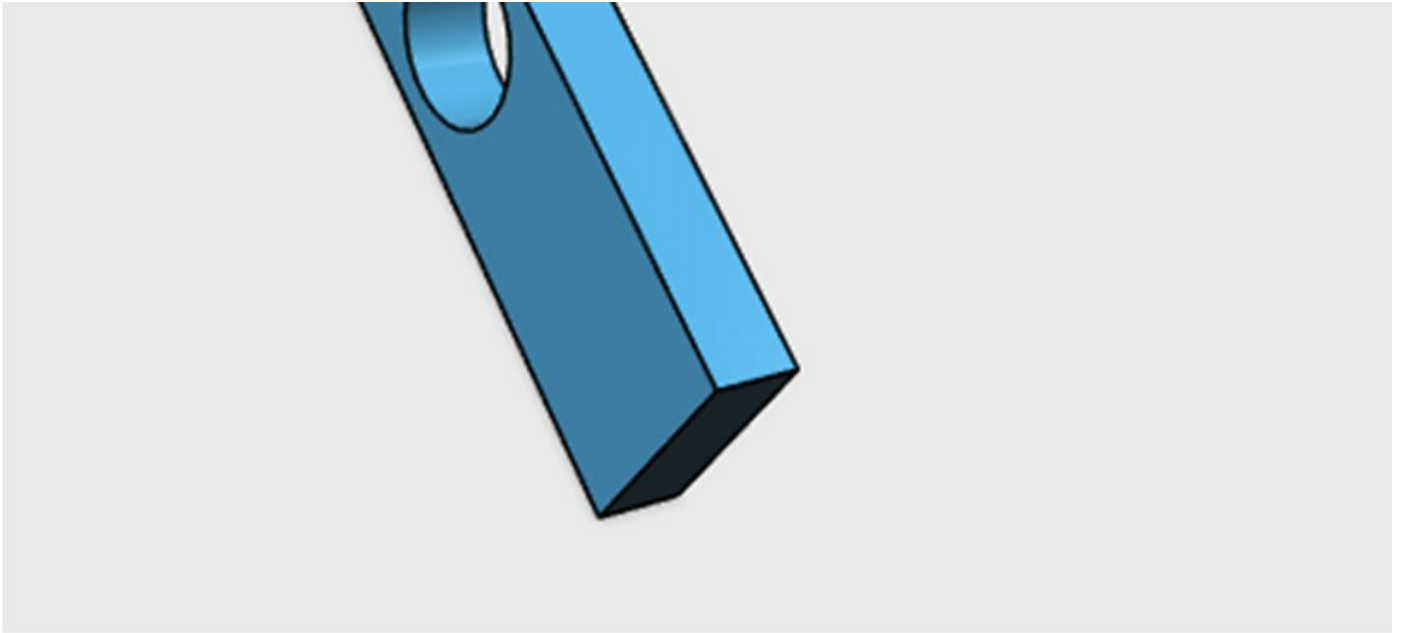
EXERCISE – MECHANICAL PART EIGHT

2D

A = 7.5 mm, All FILLETs non specified are R2.5

3D



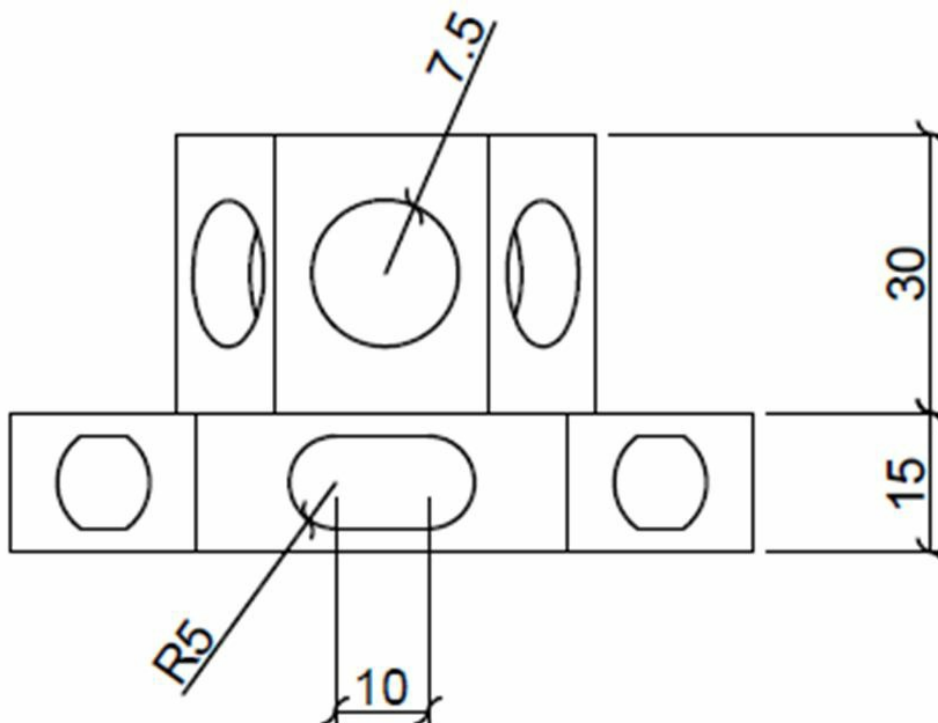
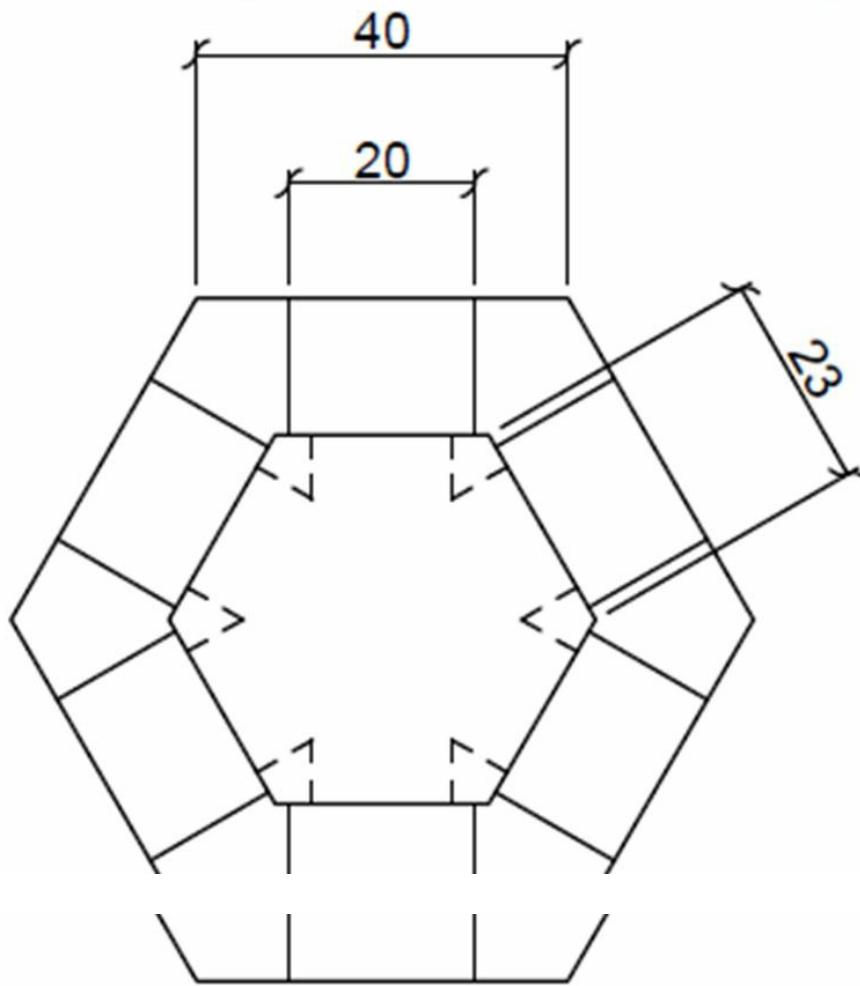


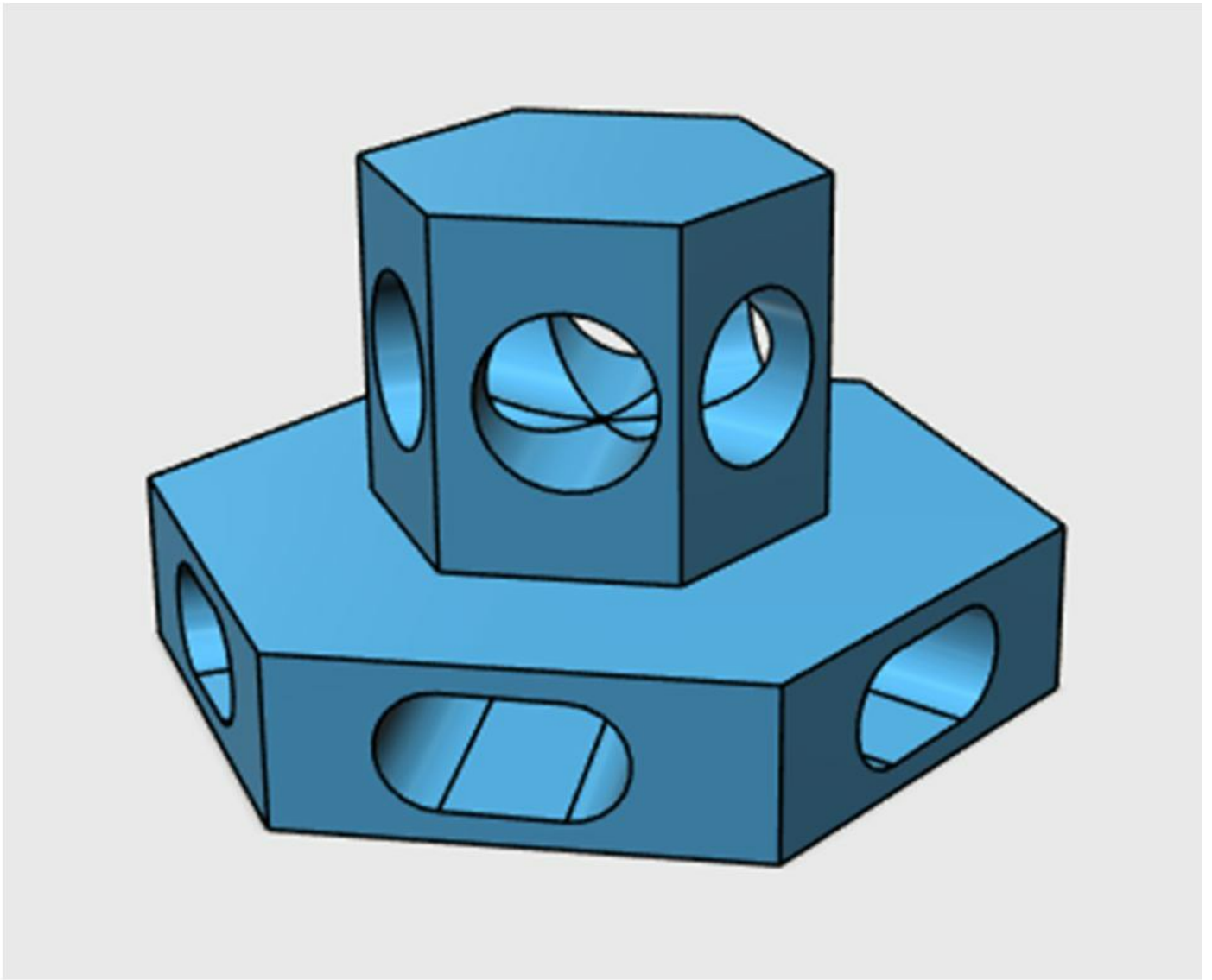
EXERCISE – MECHANICAL PART NINE

2D

The thickness is 7.5 mm

3D



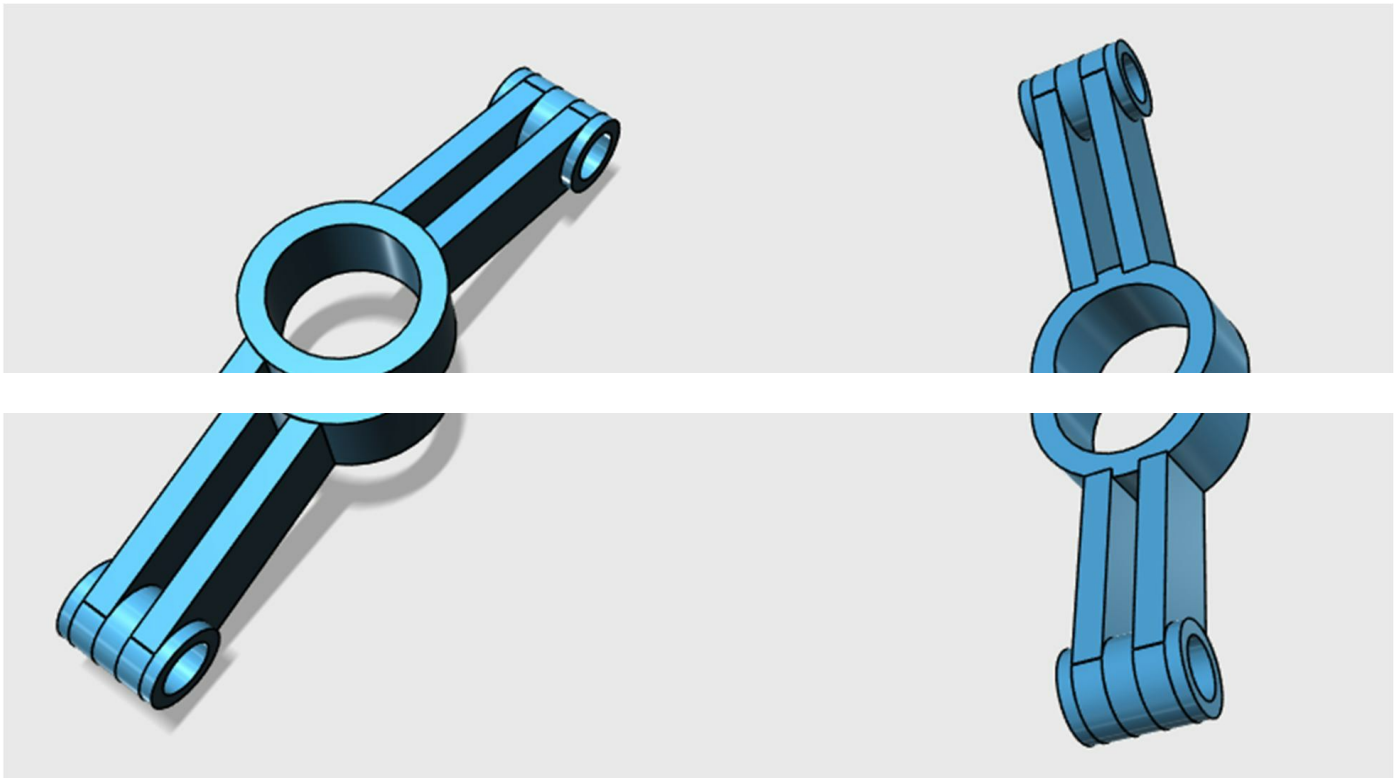
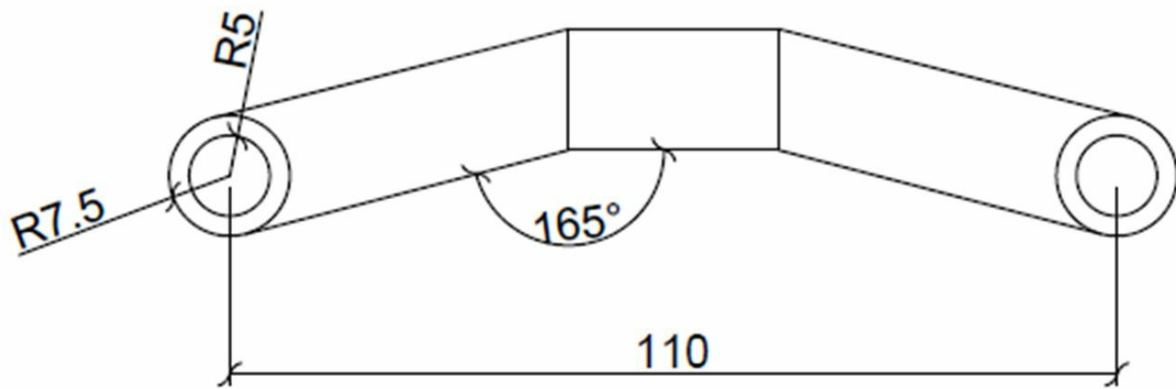
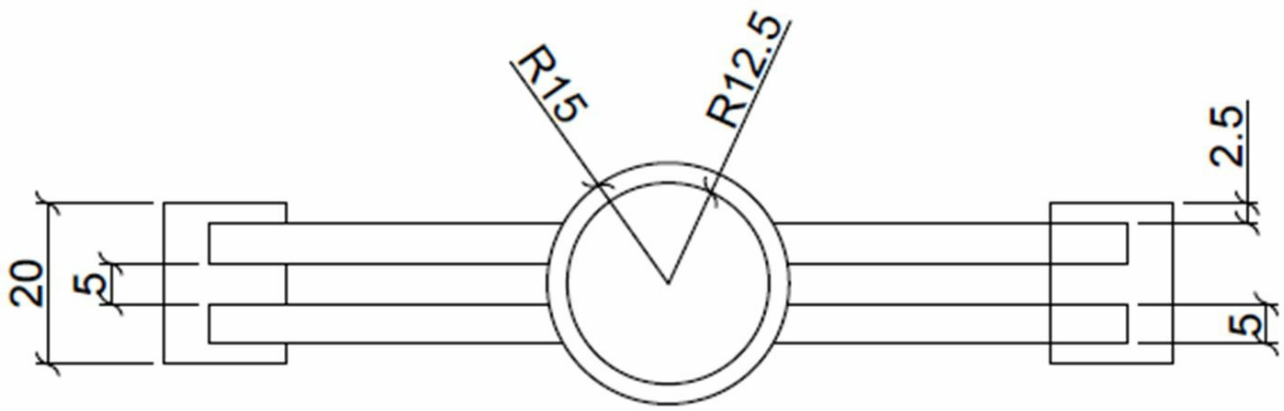


EXERCISE – MECHANICAL PART TEN

2D

R has been forgotten while dimensioning radius on the second image. It should be R7.5.

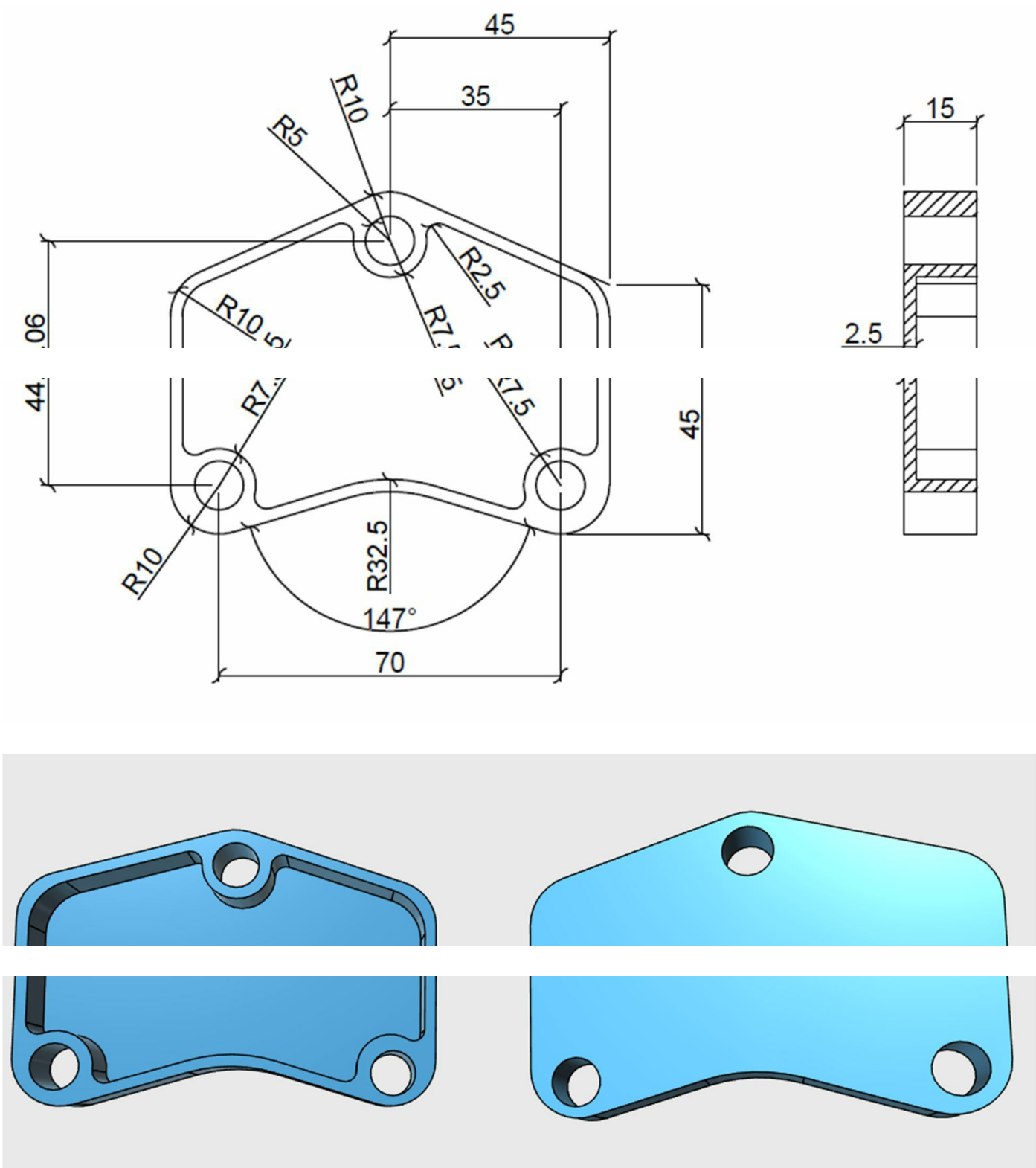
3D



EXERCISE – MECHANICAL PART ELEVEN

2D

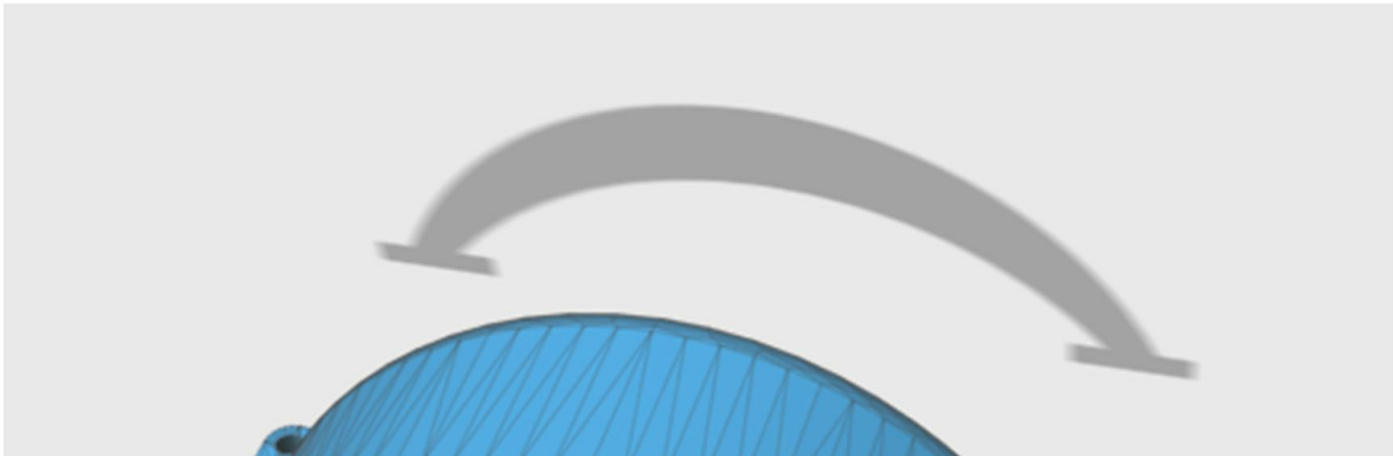
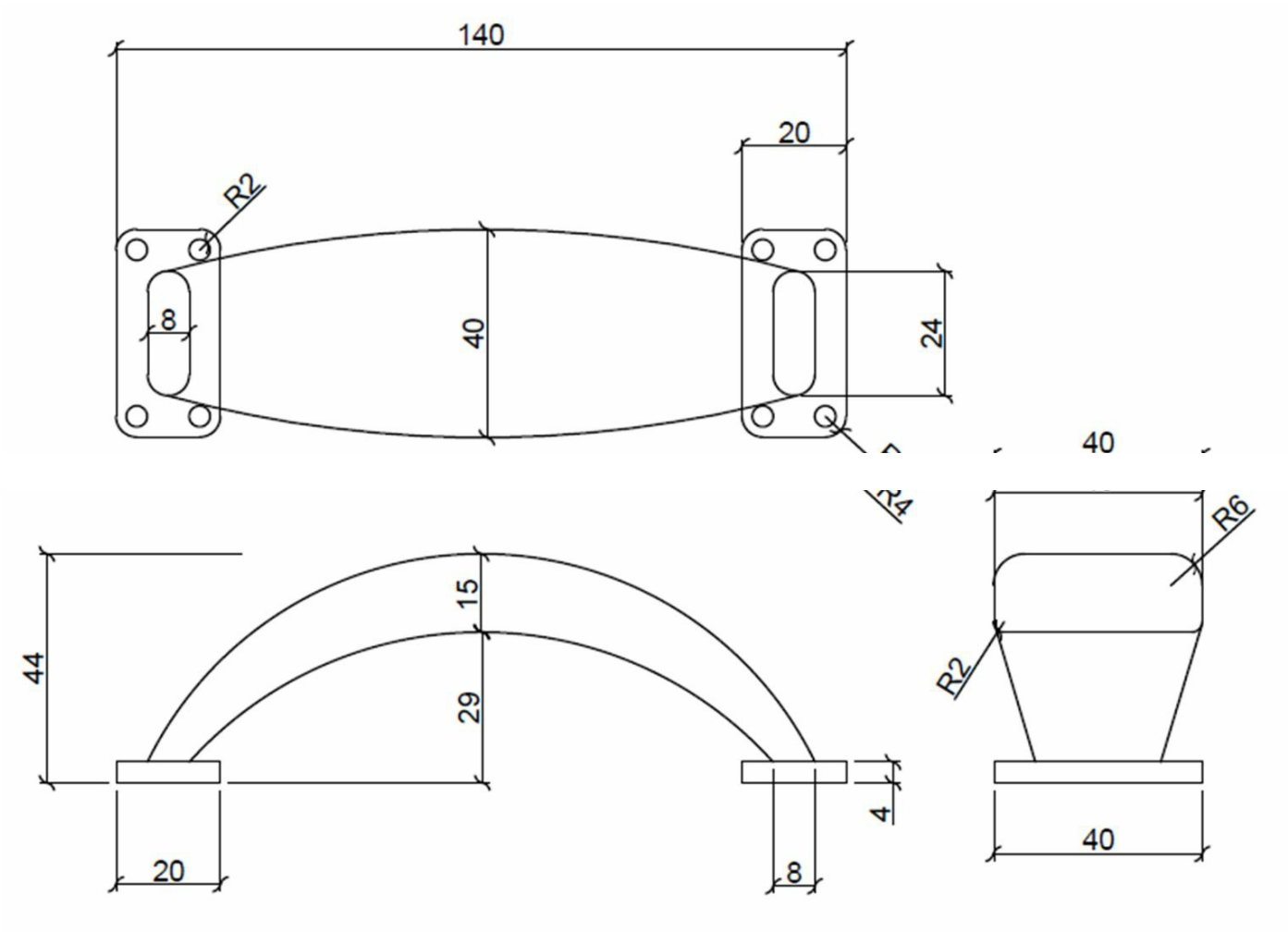
3D

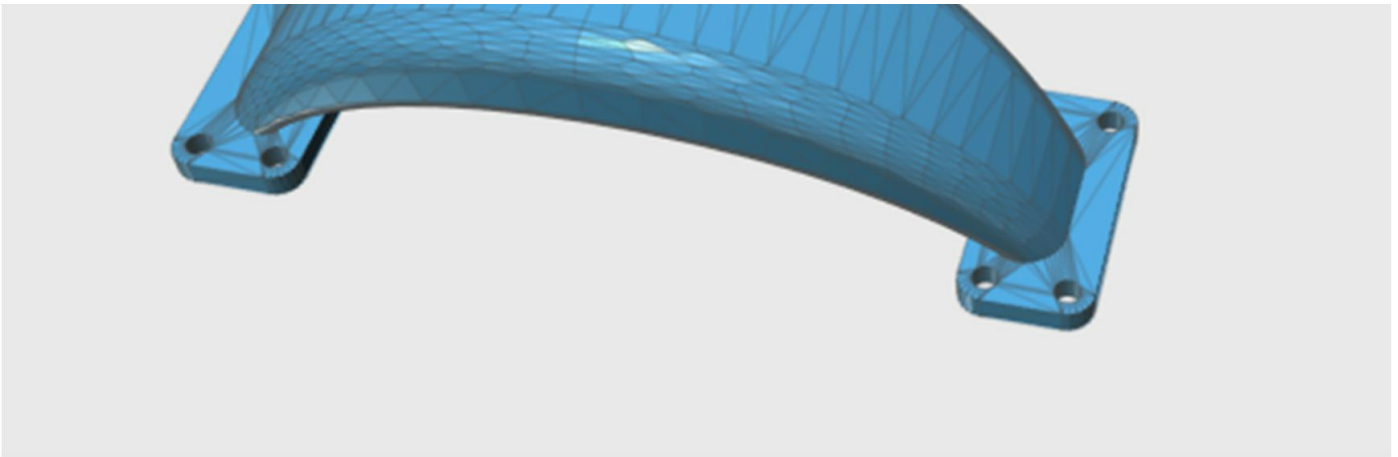


EXERCISE – MECHANICAL PART TWELVE

2D

3D

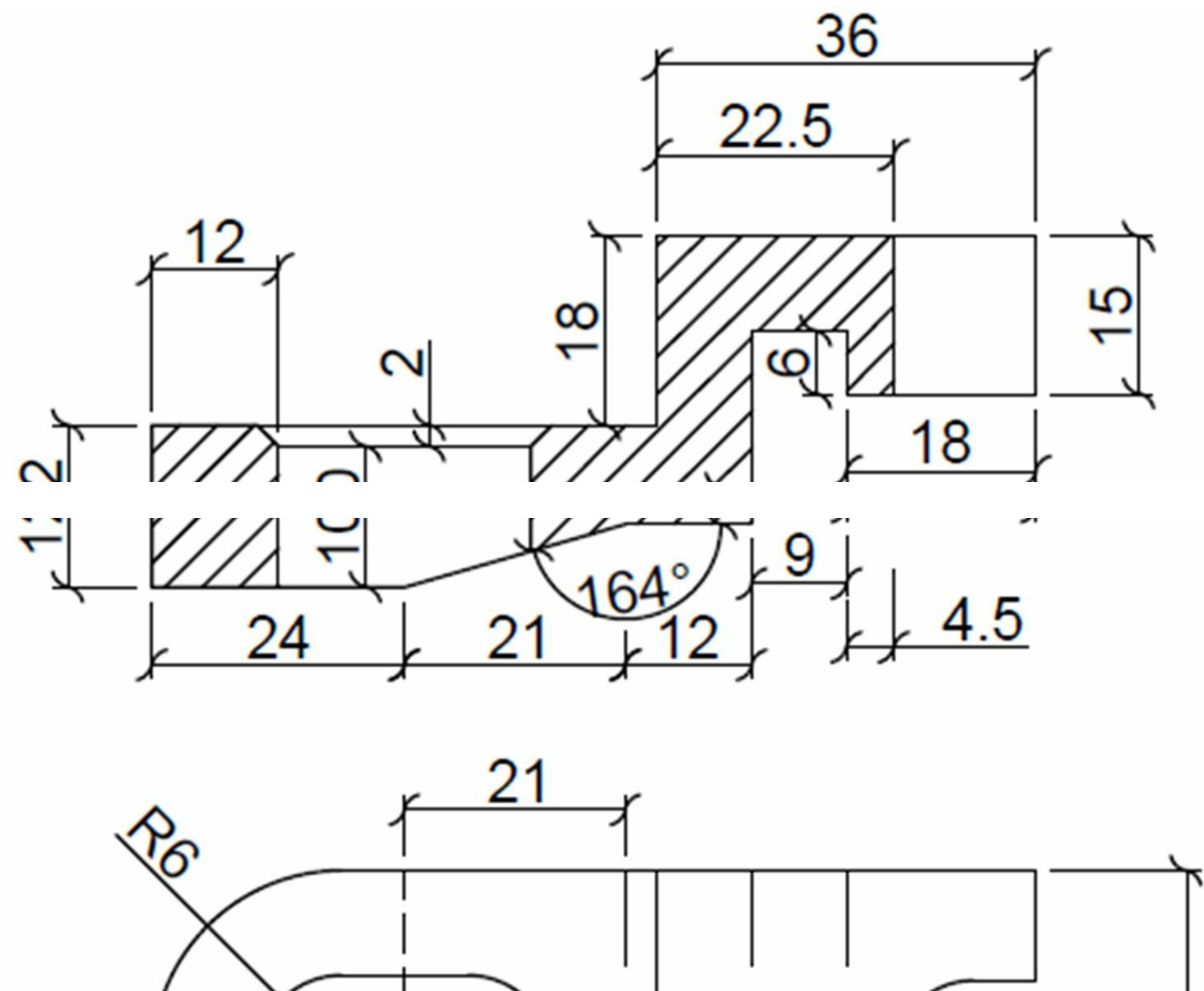


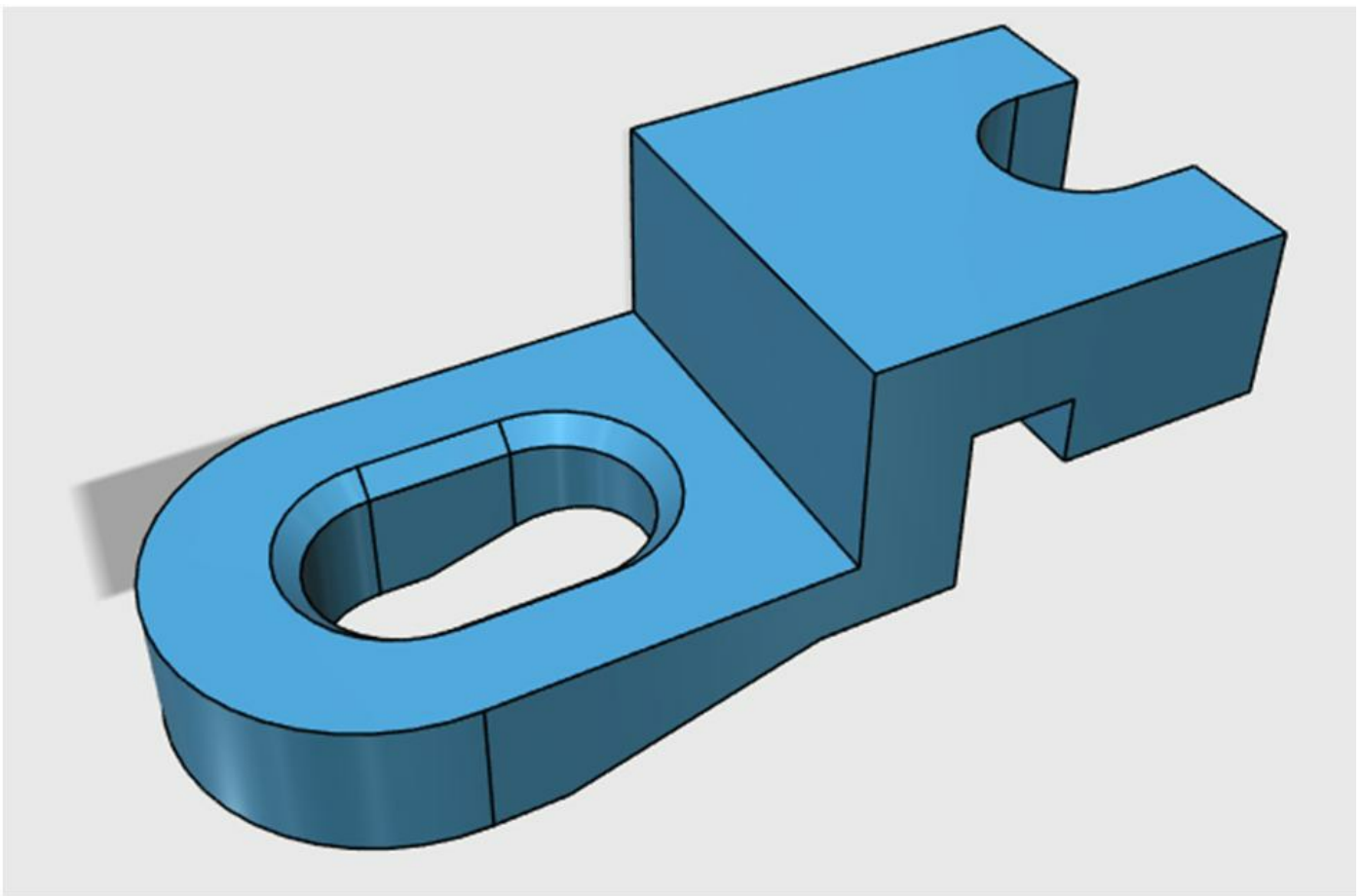
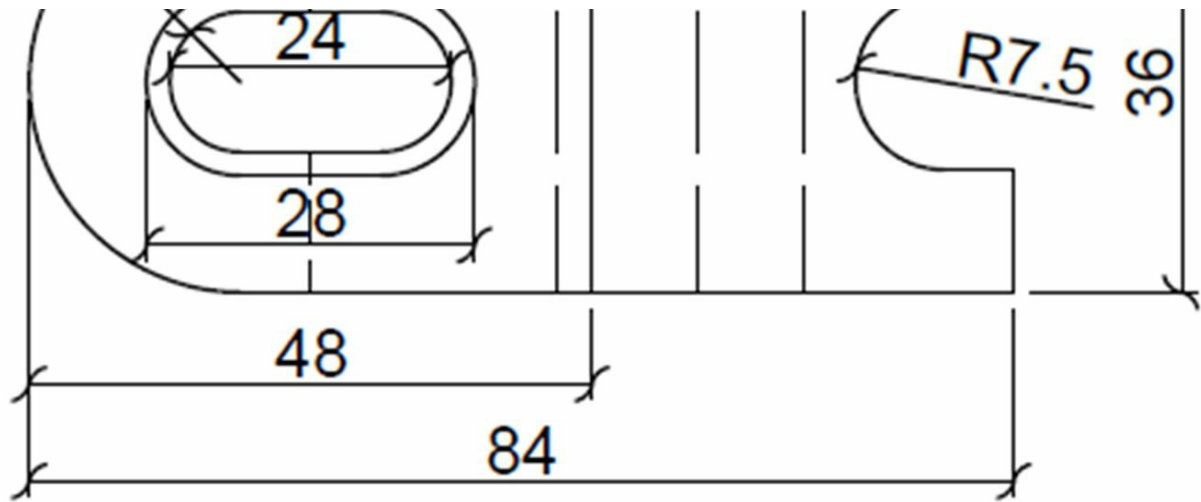


EXERCISE – MECHANICAL PART THIRTEEN

2D

3D

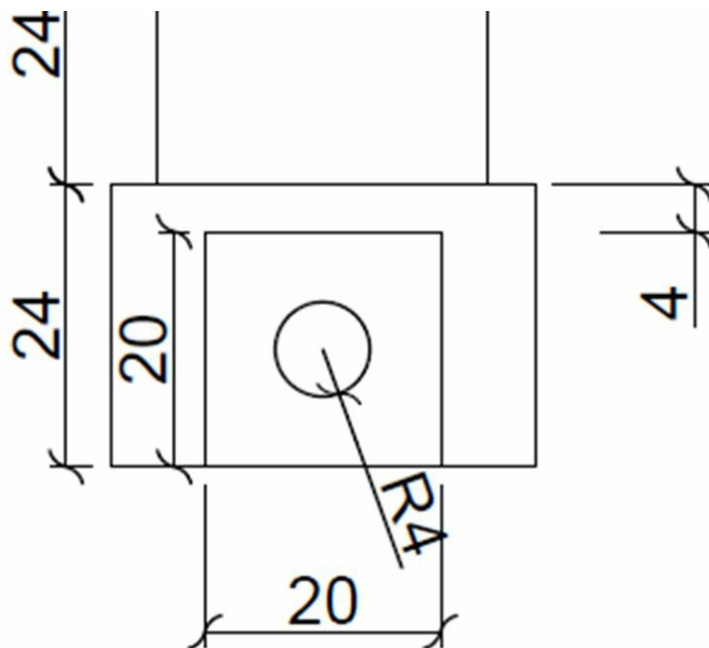
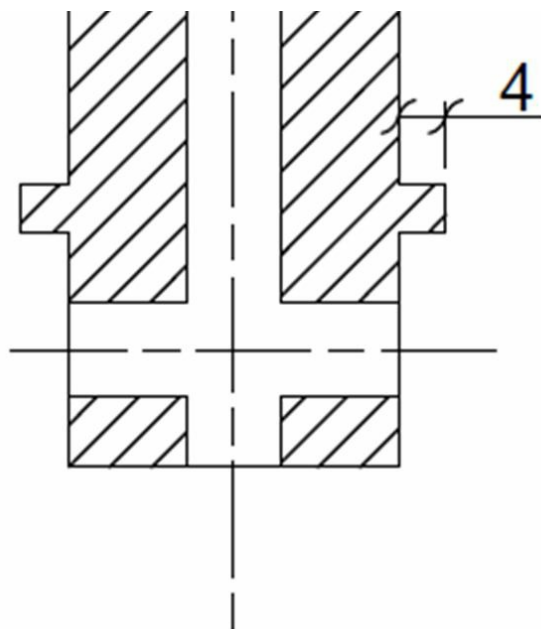
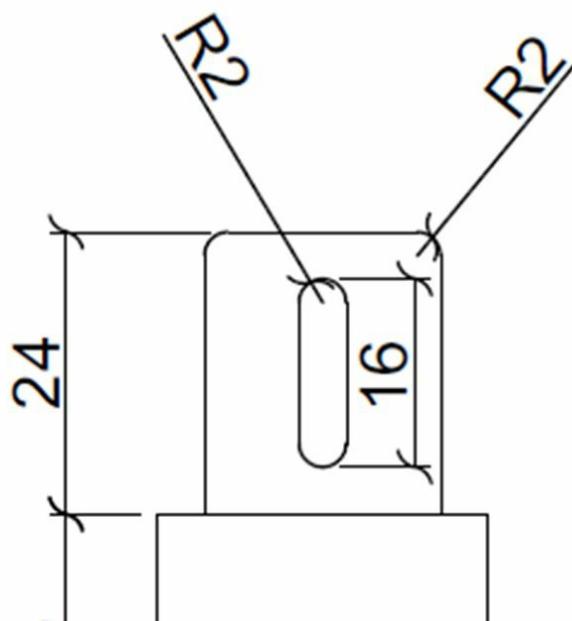
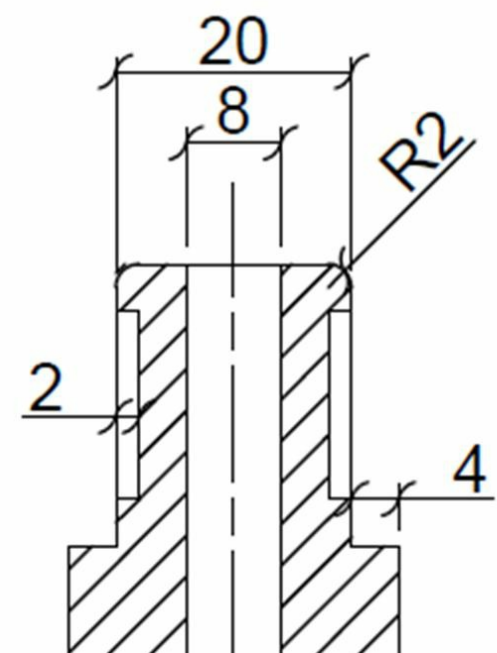


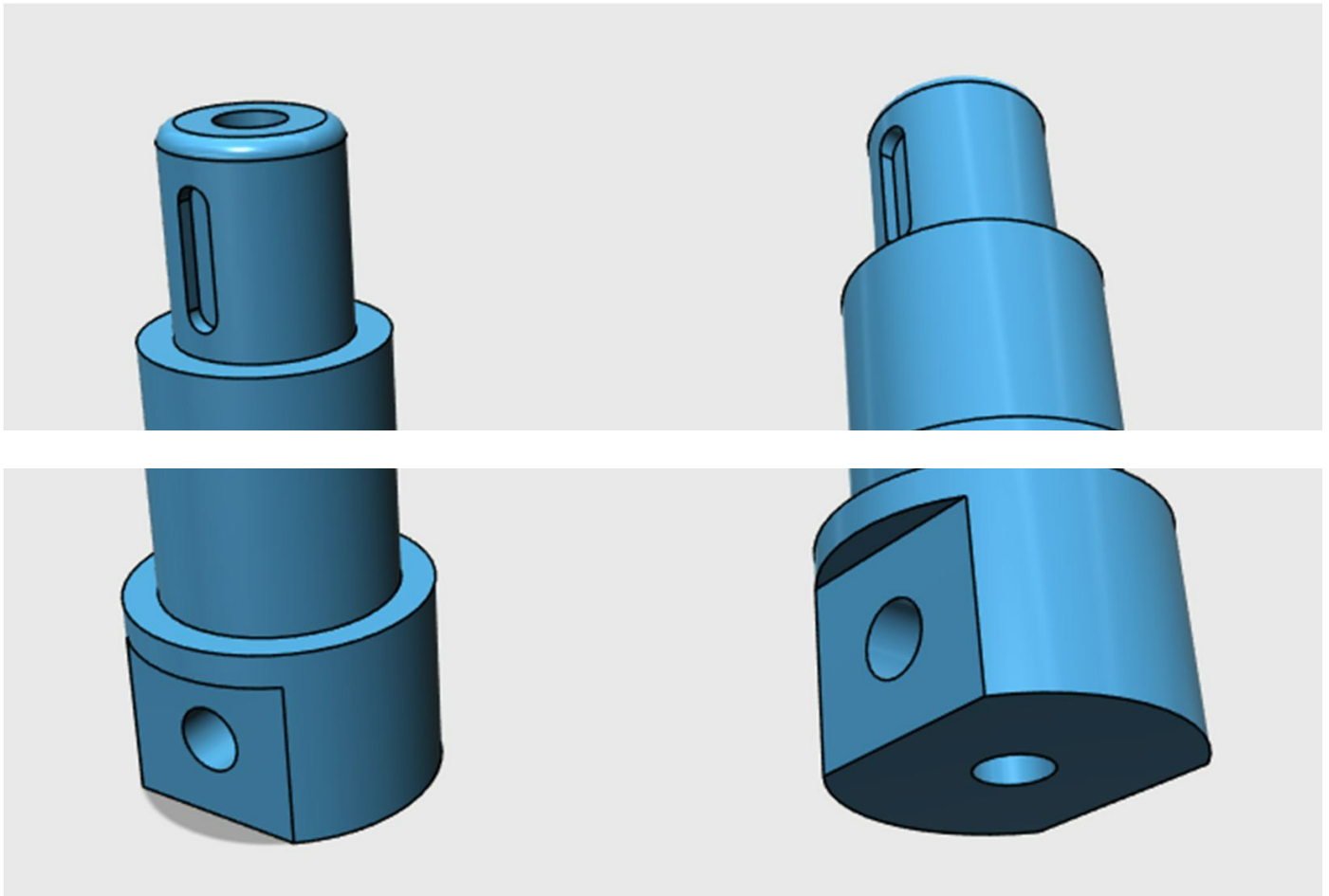


EXERCISE – MECHANICAL PART FOURTEEN

2D

3D

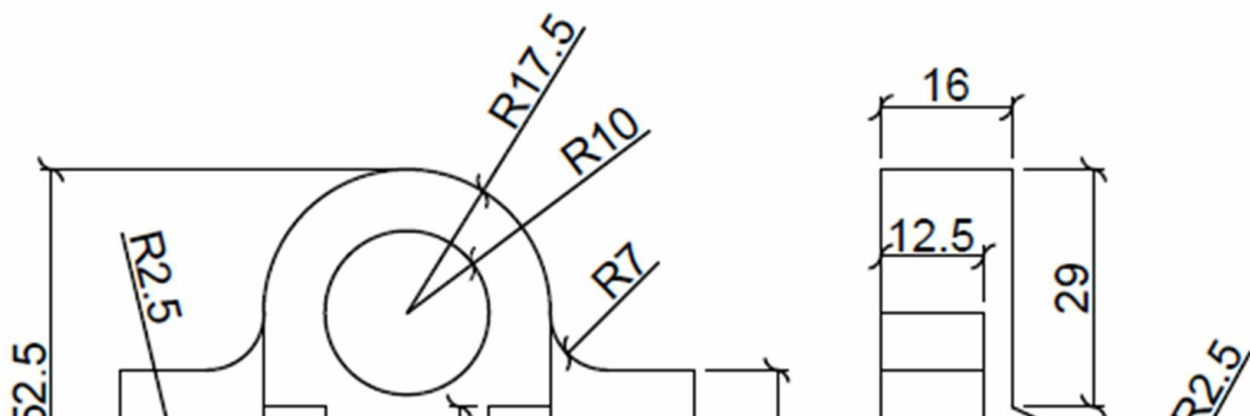


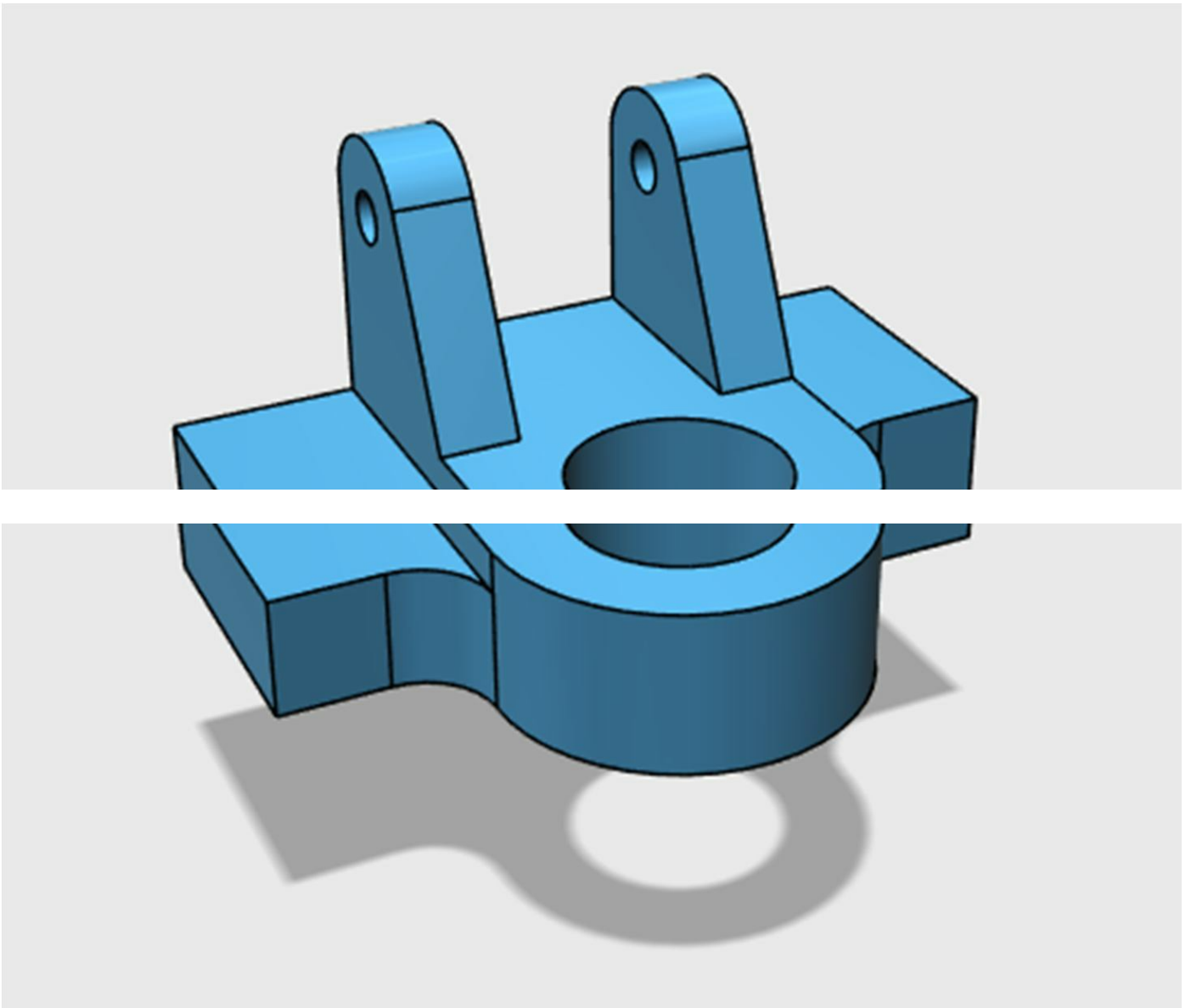
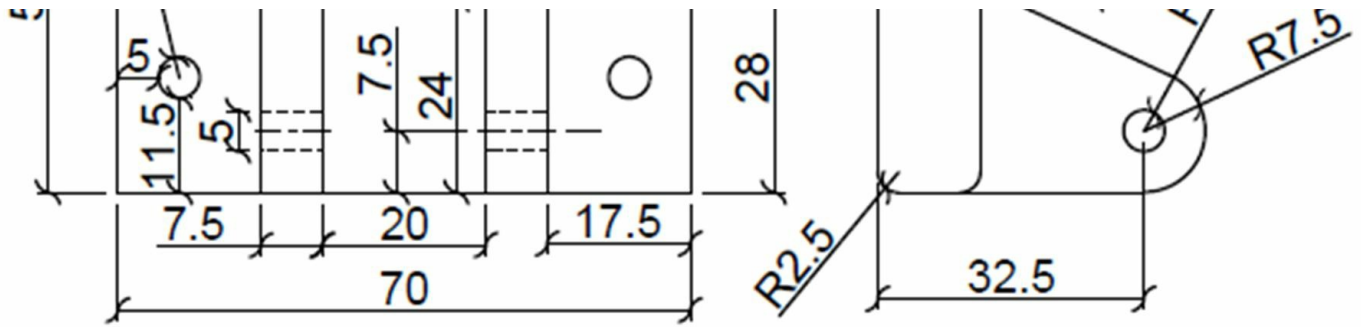


EXERCISE – MECHANICAL PART FIFTEEN

2D

3D



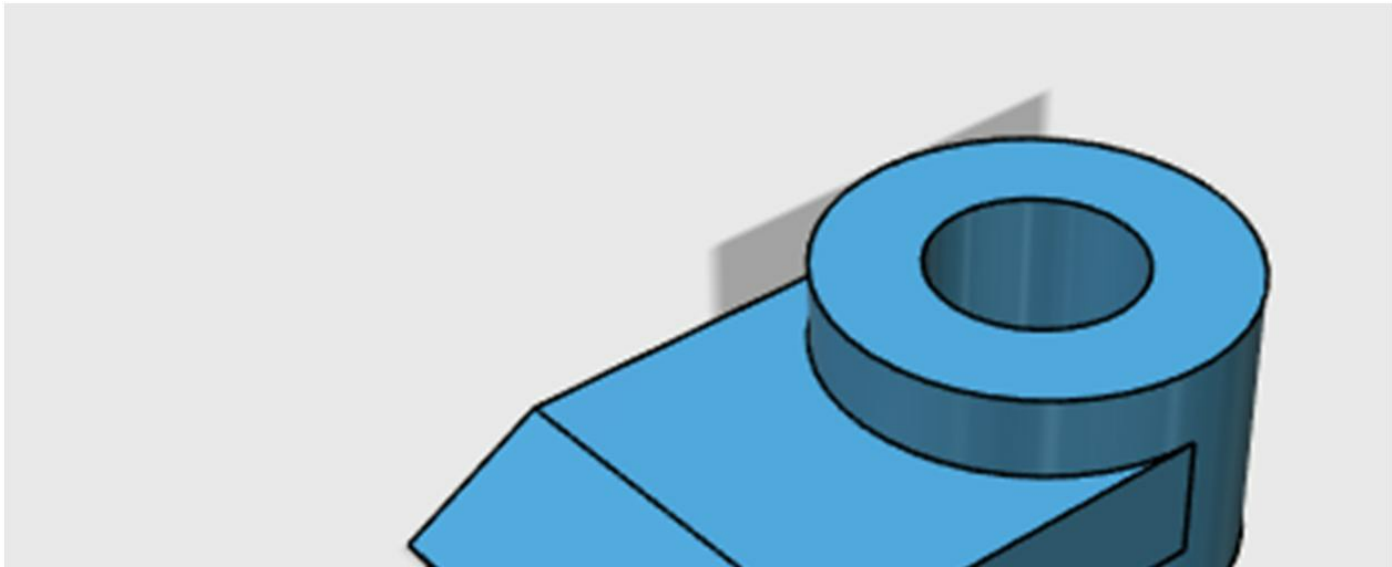
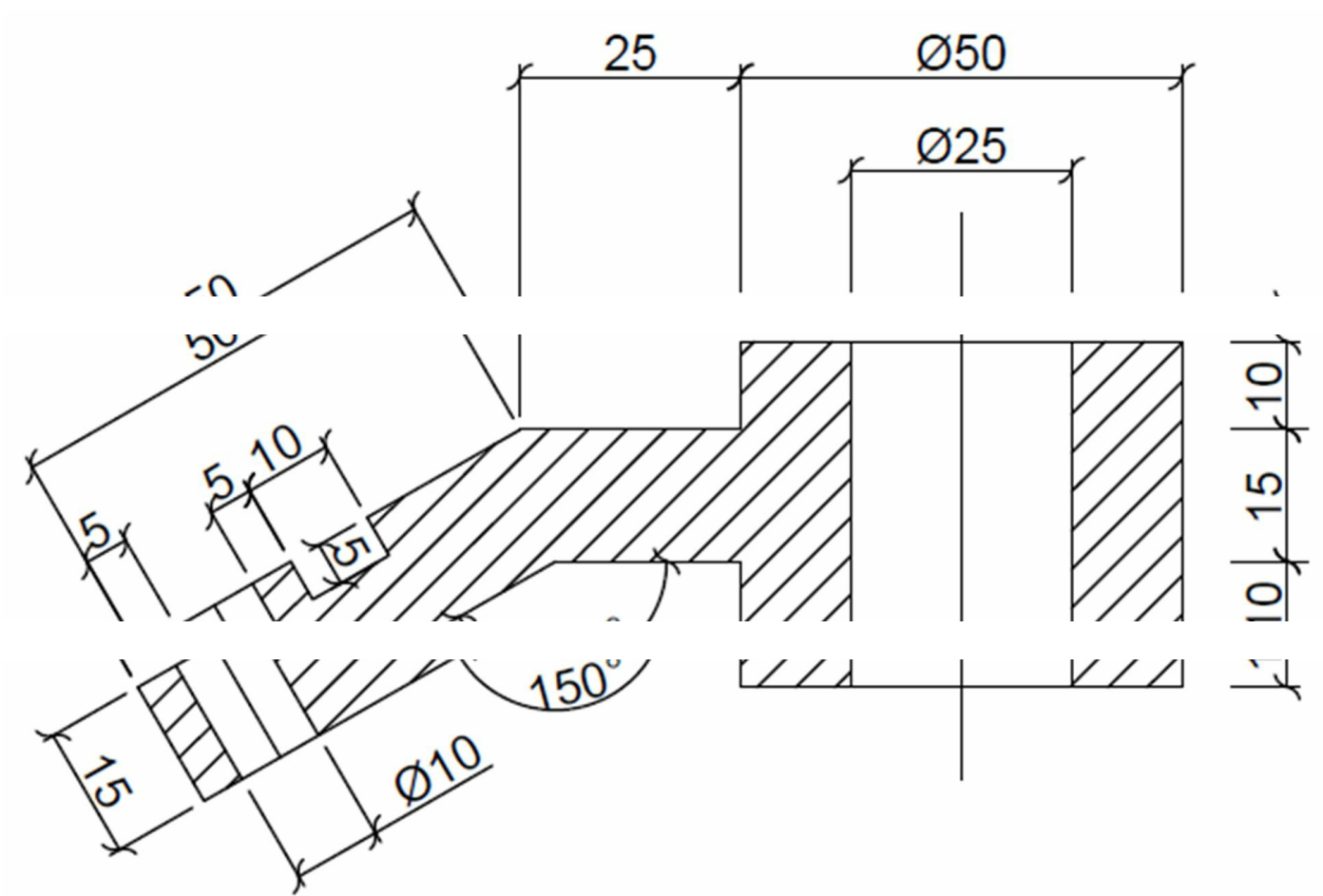


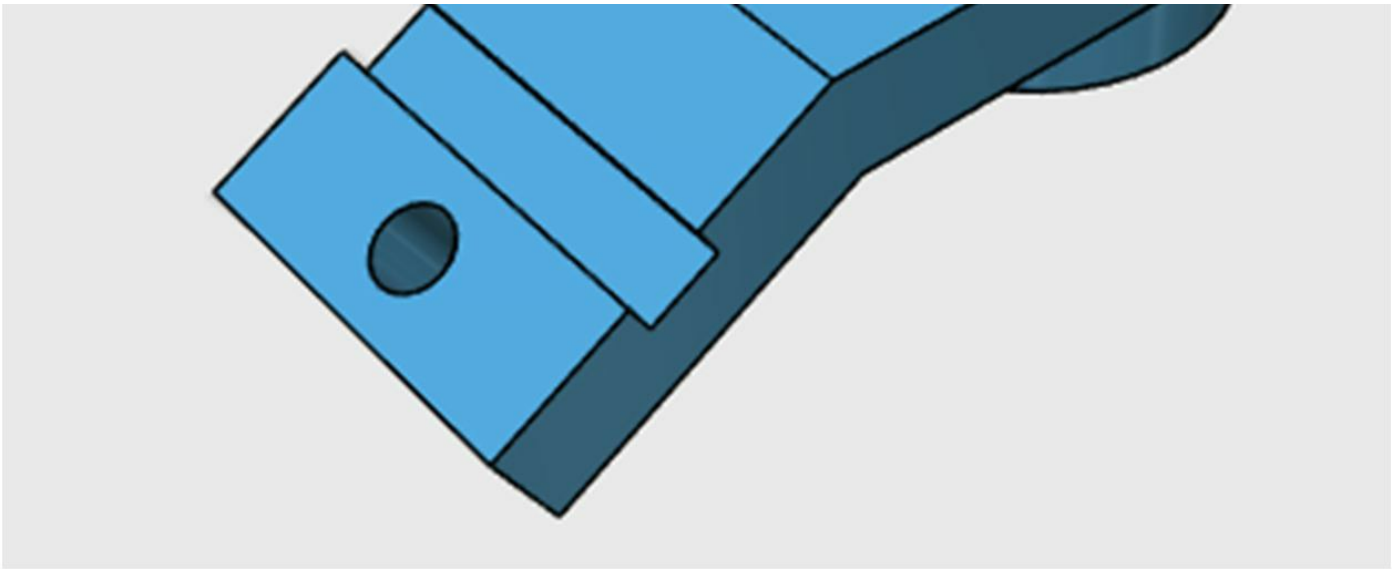
EXERCISE – MECHANICAL PART SIXTEEN

2D

*****ebook converter DEMO Watermarks*****

3D

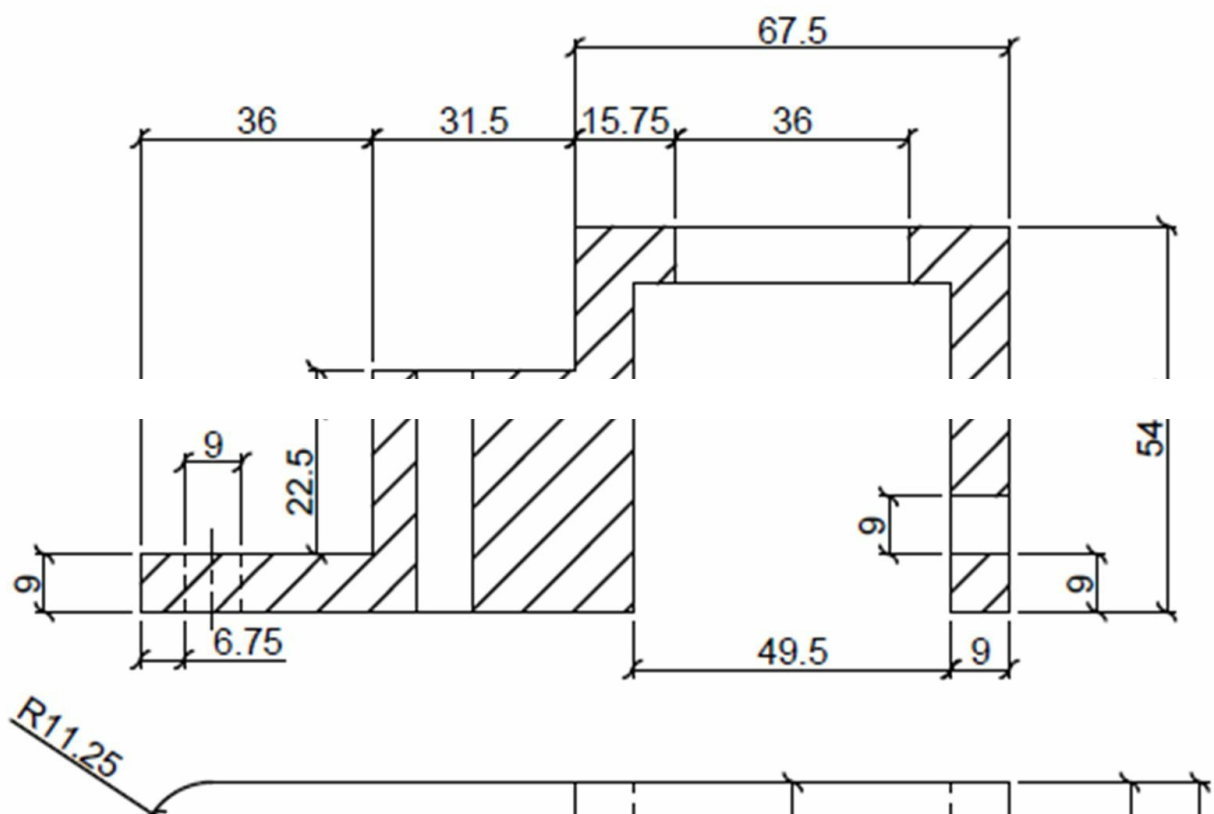


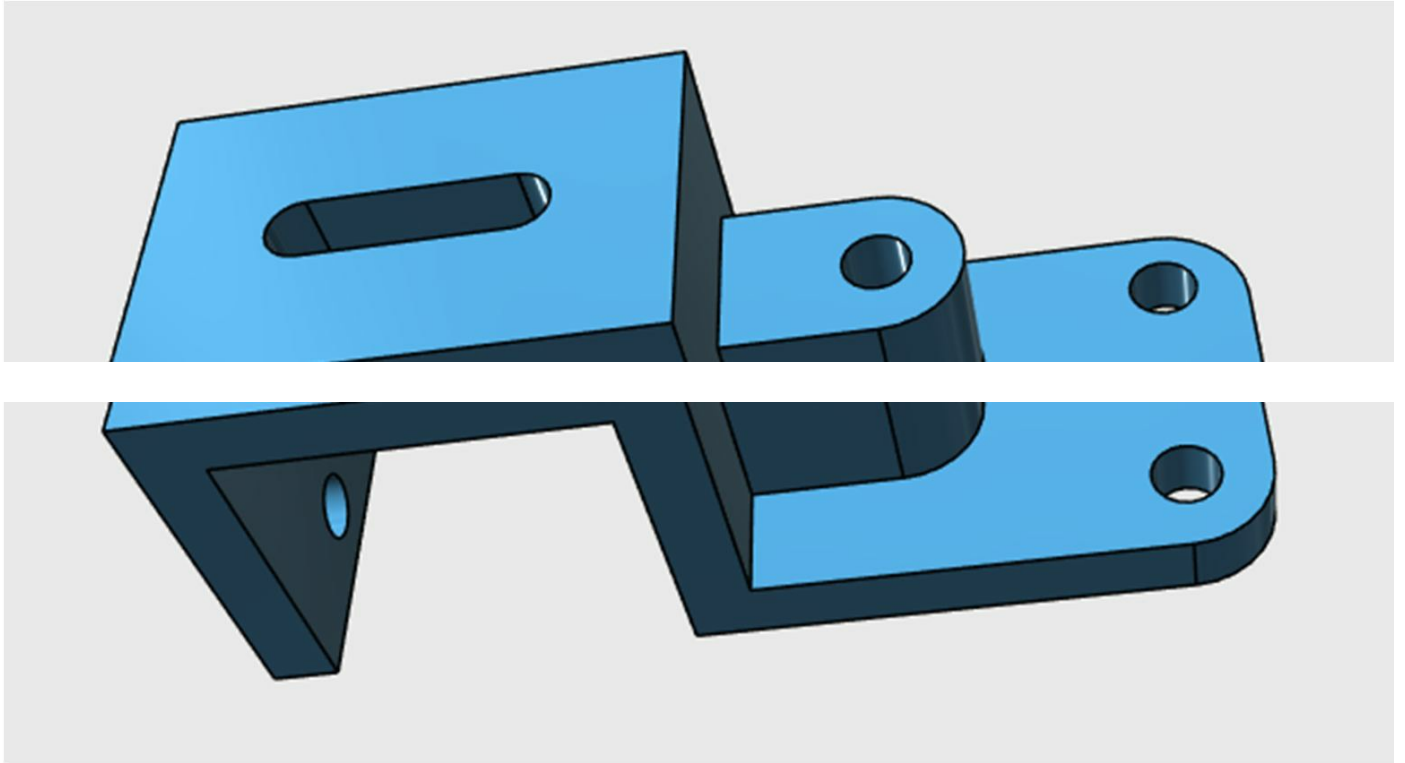
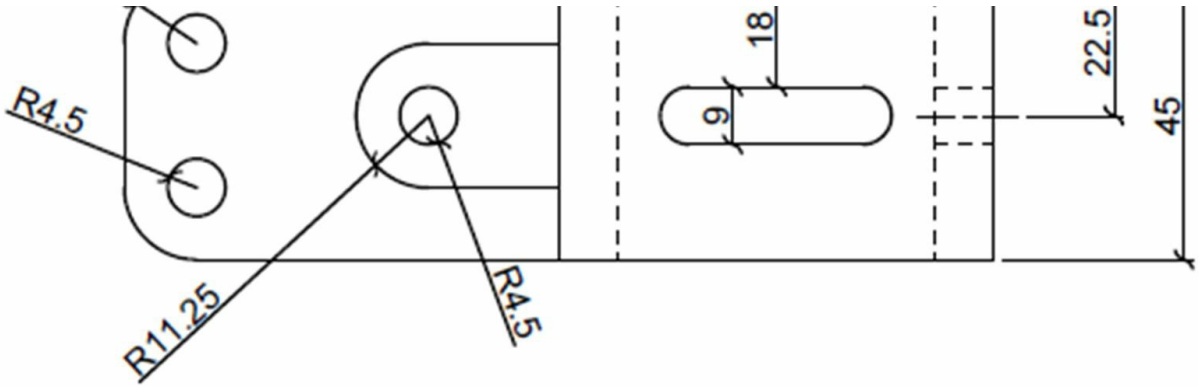


EXERCISE – MECHANICAL PART SEVENTEEN

2D

3D

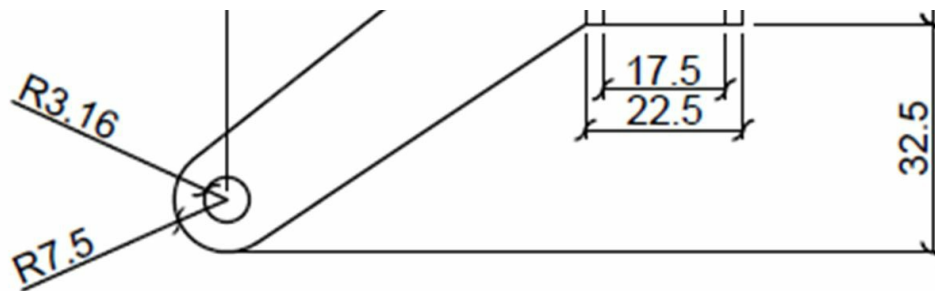
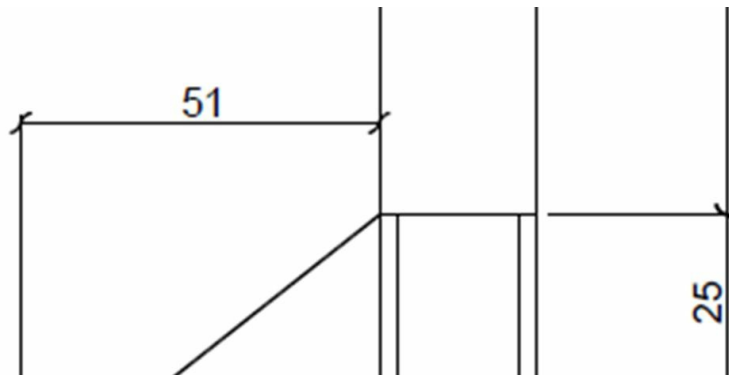
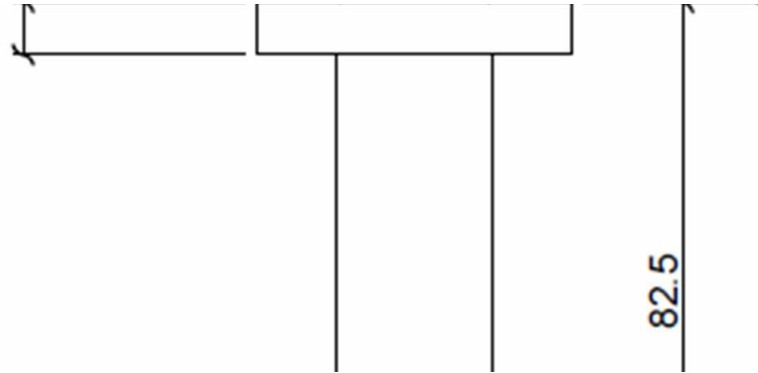
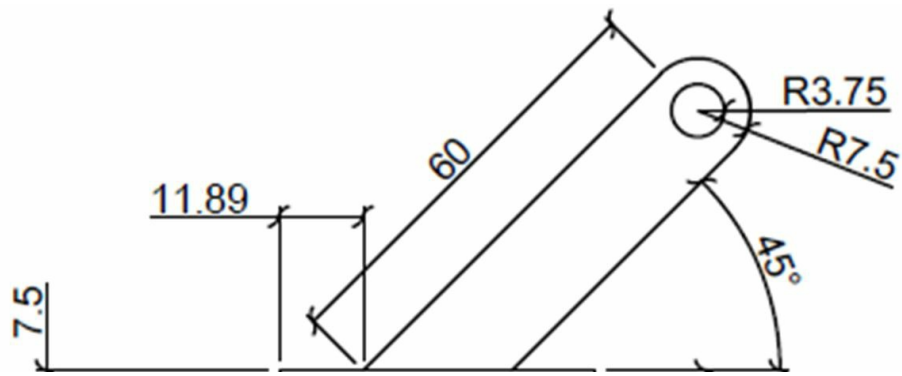


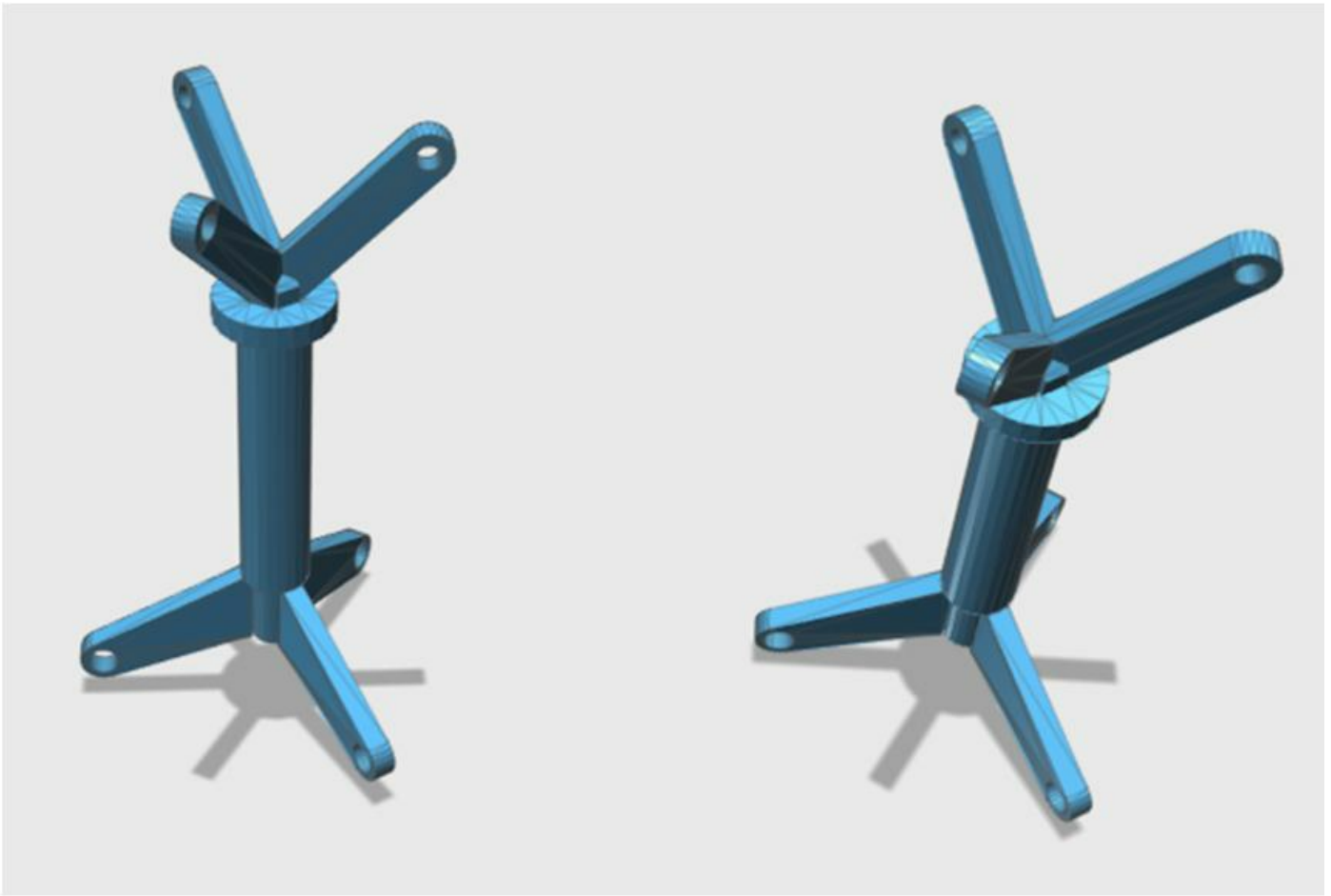


EXERCISE – MECHANICAL PART EIGHTEEN

2D

3D

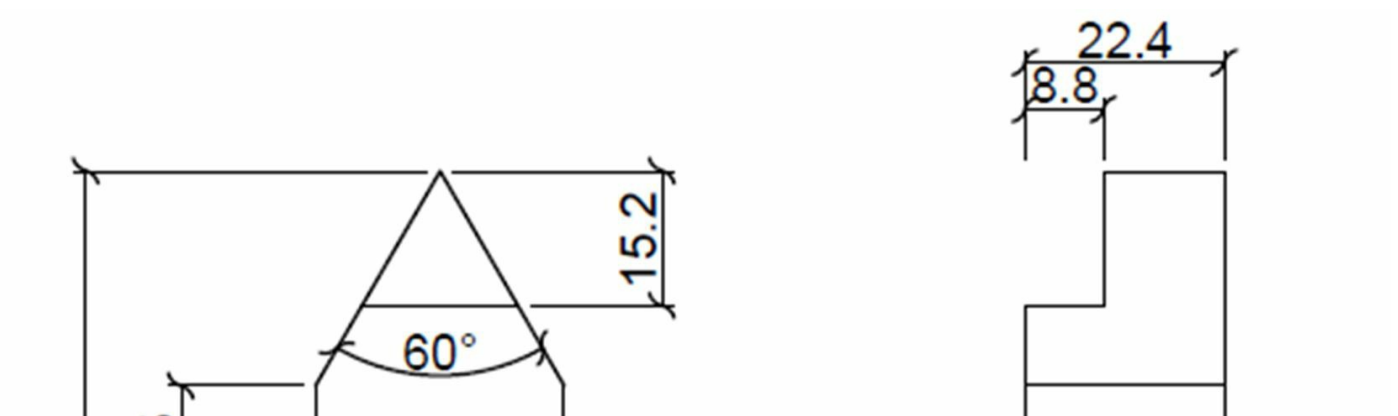


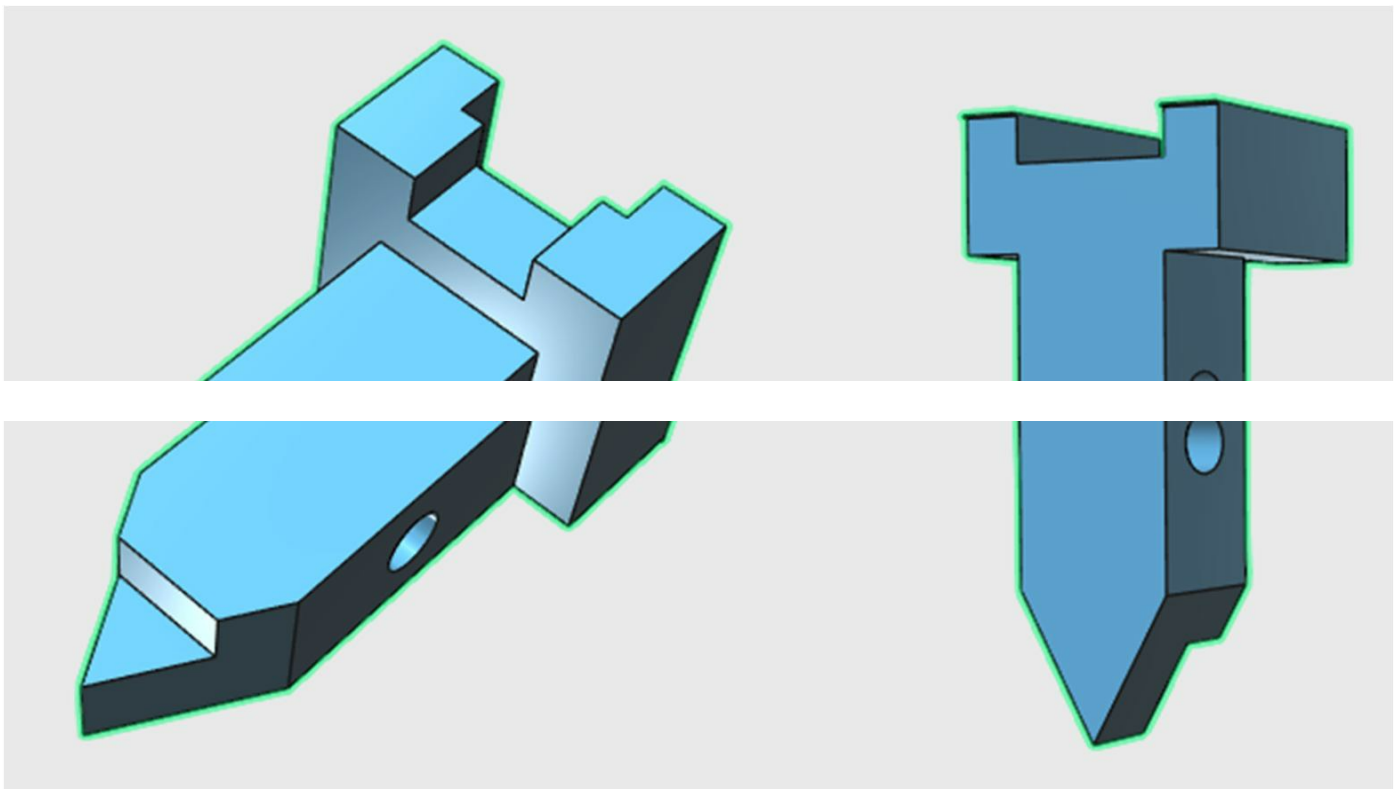
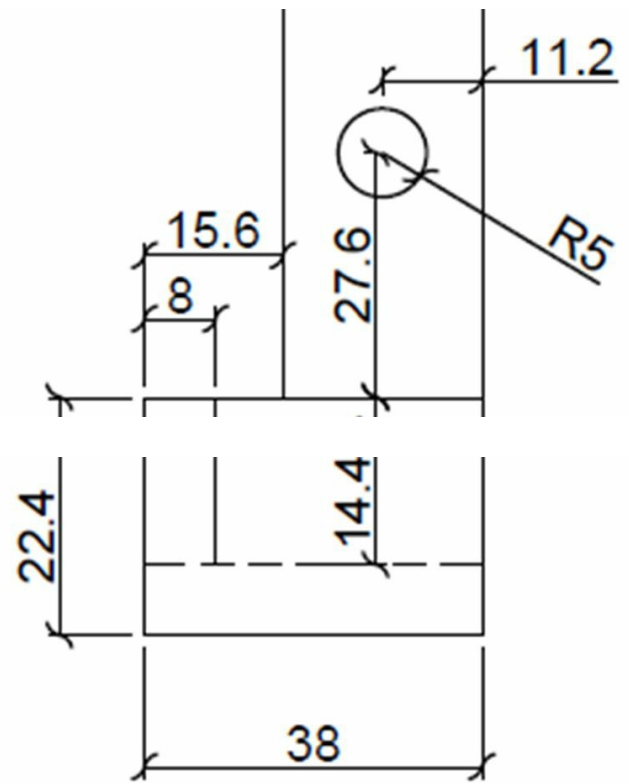
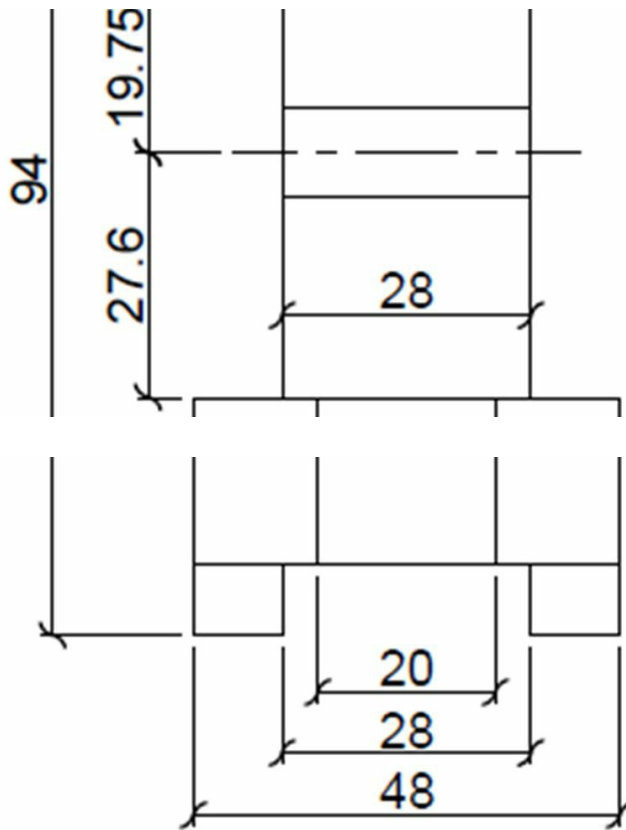


EXERCISE – WOODEN PART ONE

2D

3D



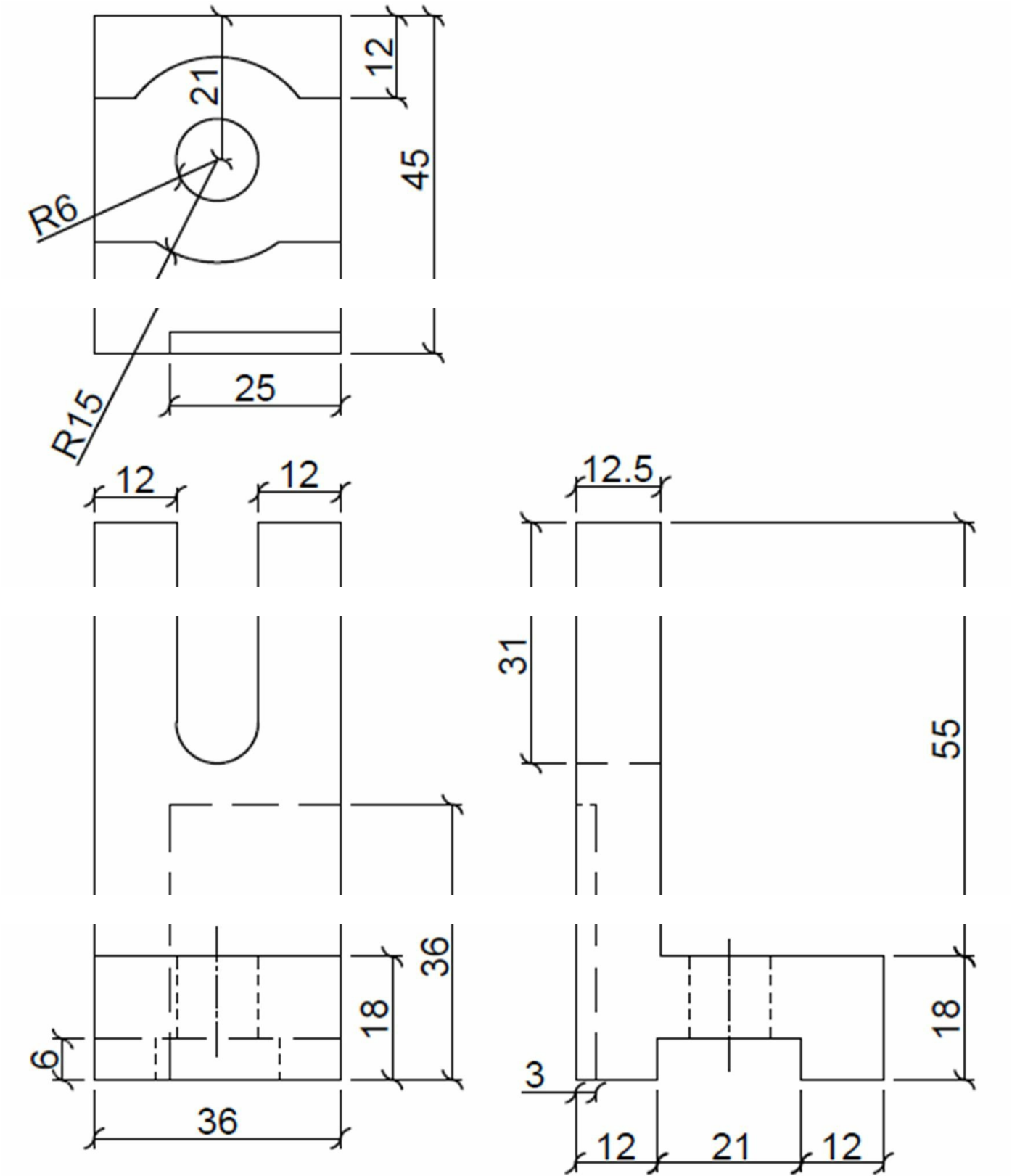


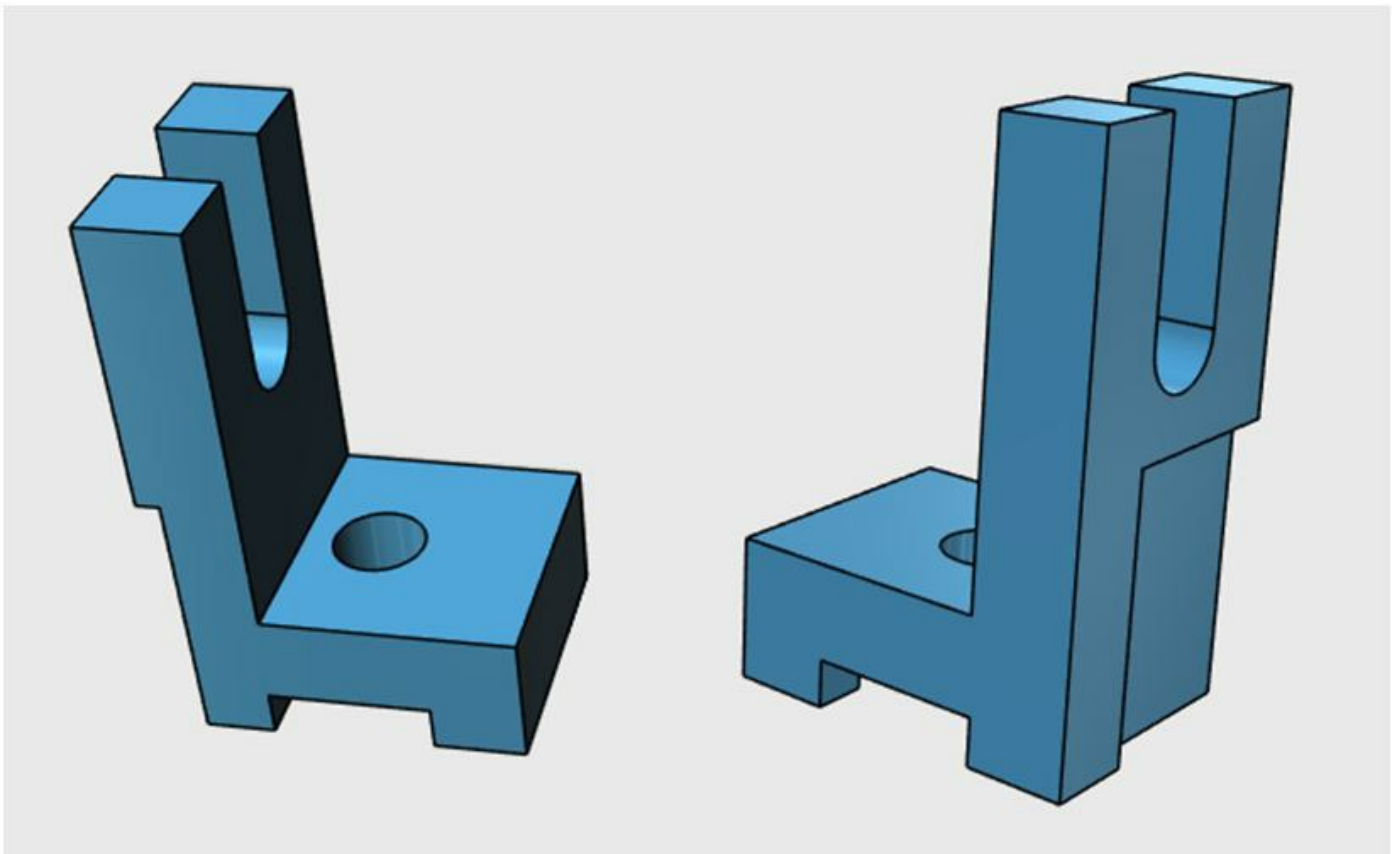
EXERCISE – MECHANICAL PART NINETEEN

2D

*****ebook converter DEMO Watermarks*****

3D

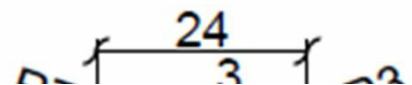
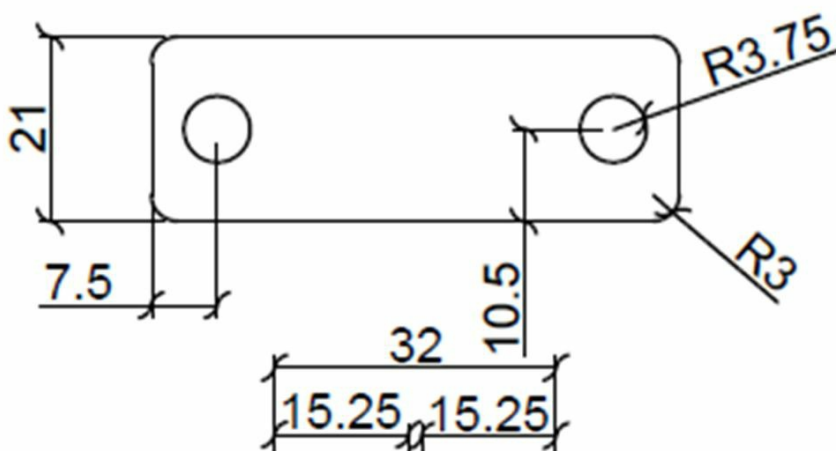


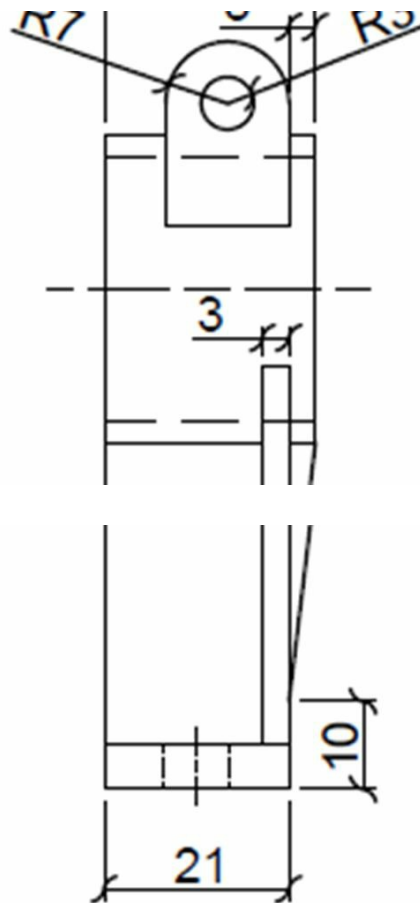
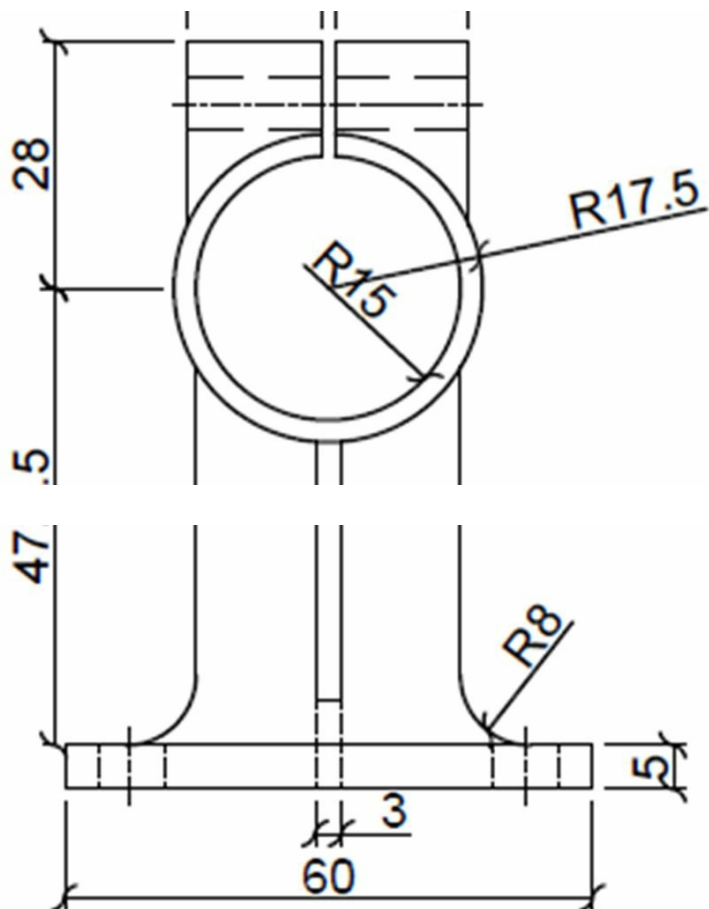


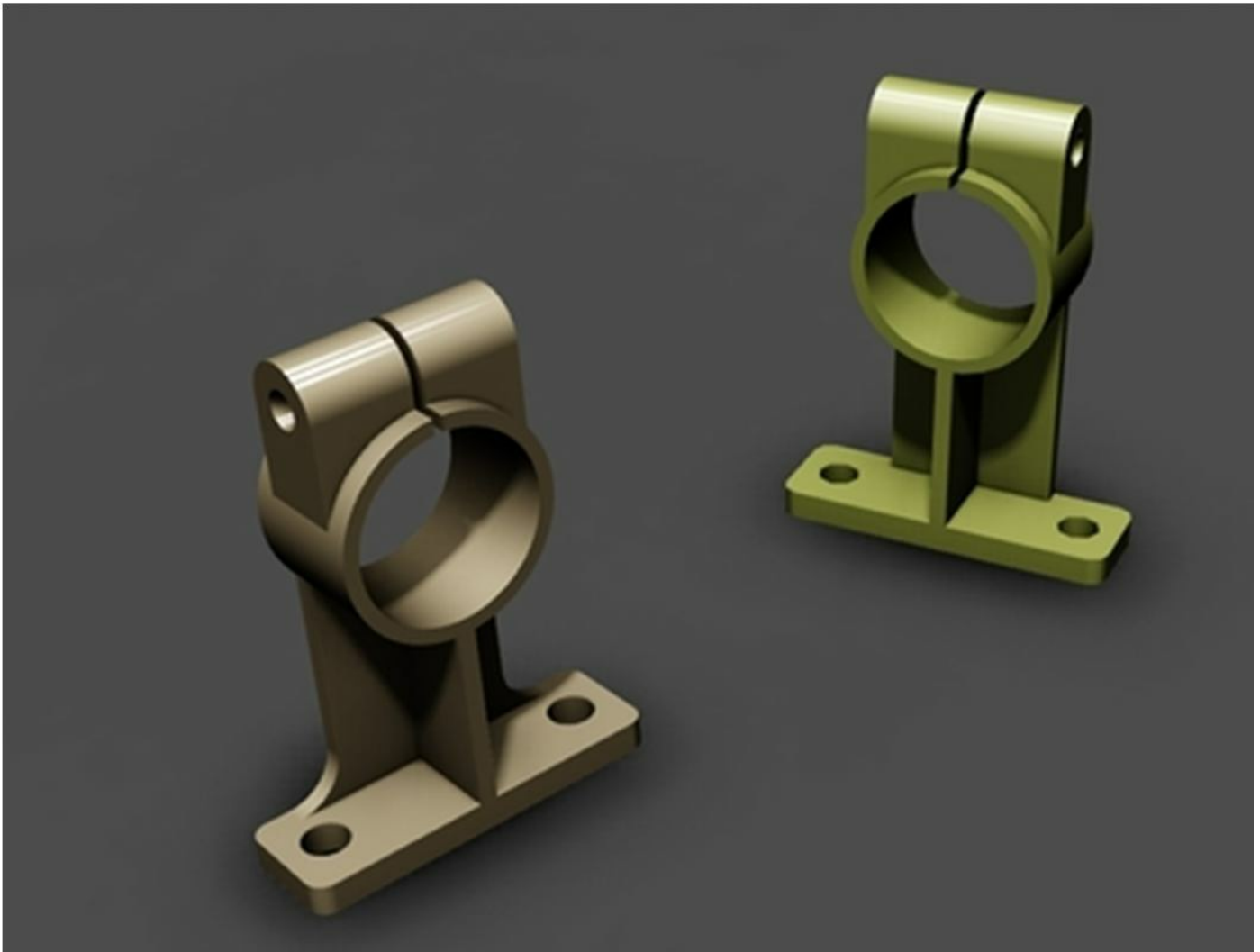
EXERCISE – MECHANICAL PART TWENTY

2D

3D



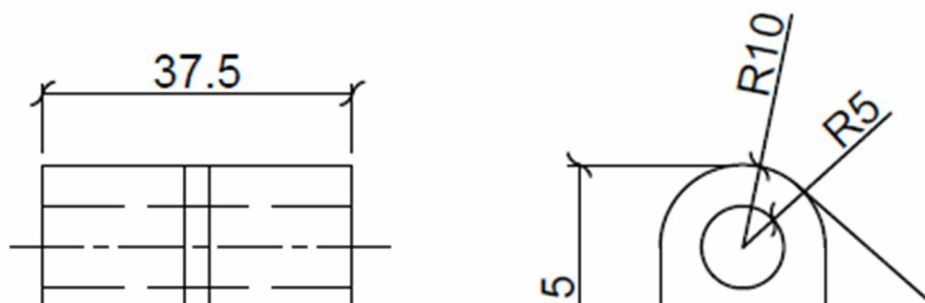


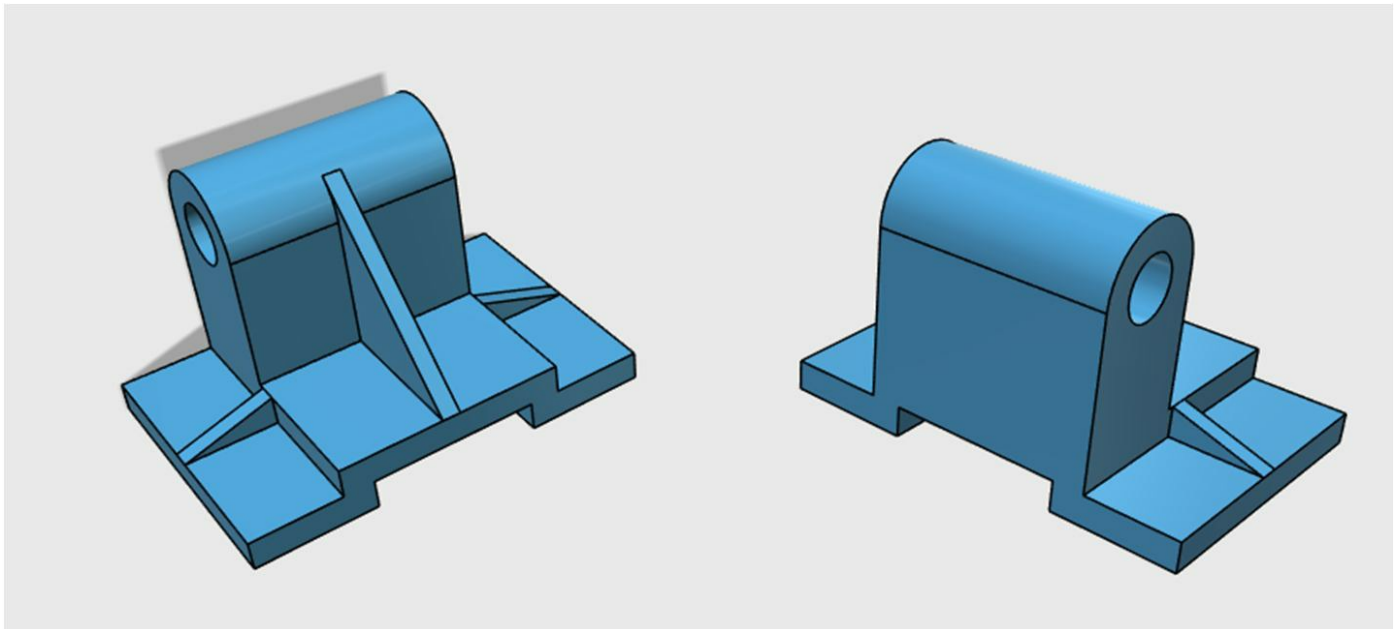
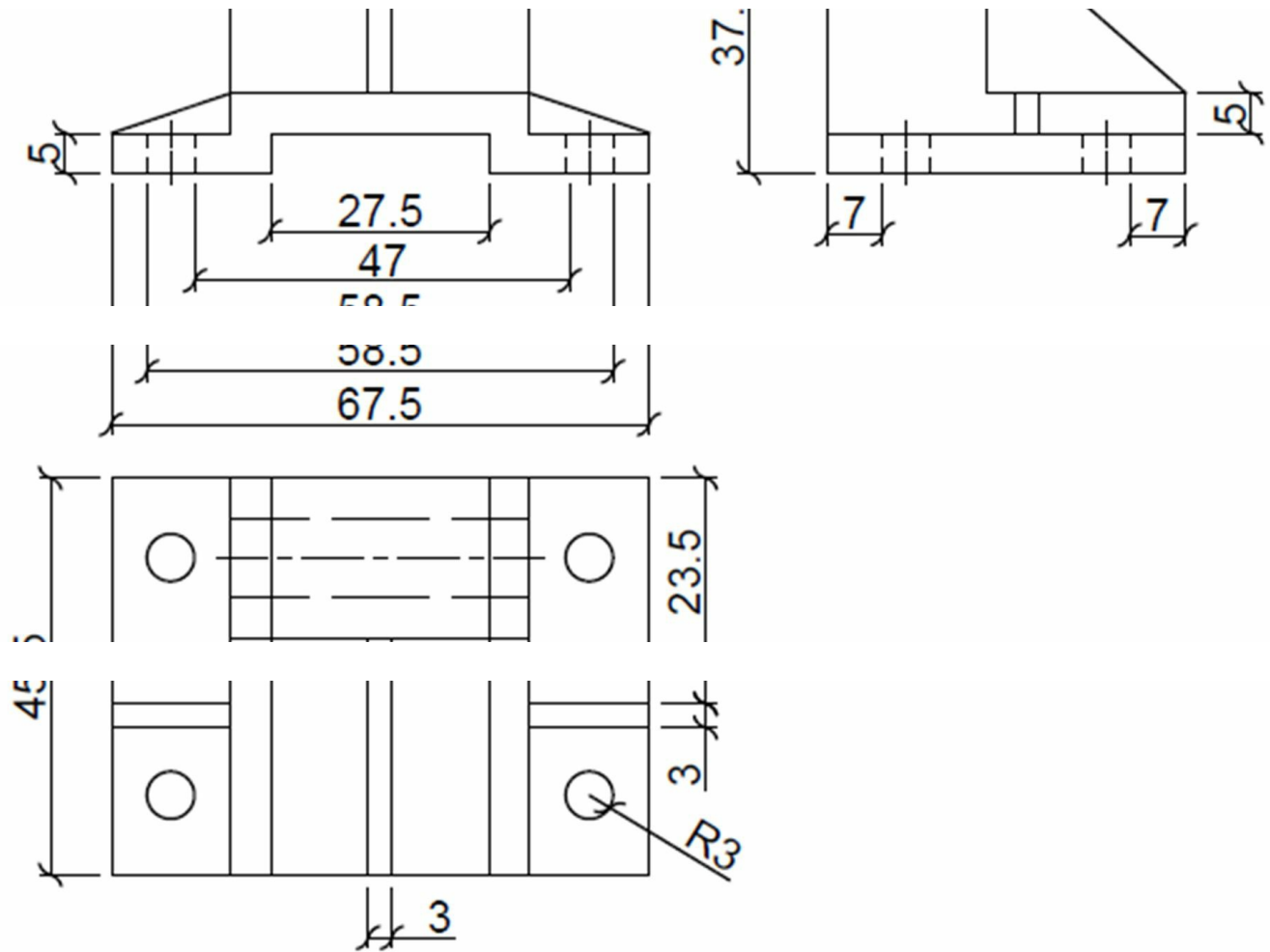


EXERCISE – MECHANICAL PART TWENTY ONE

2D

3D



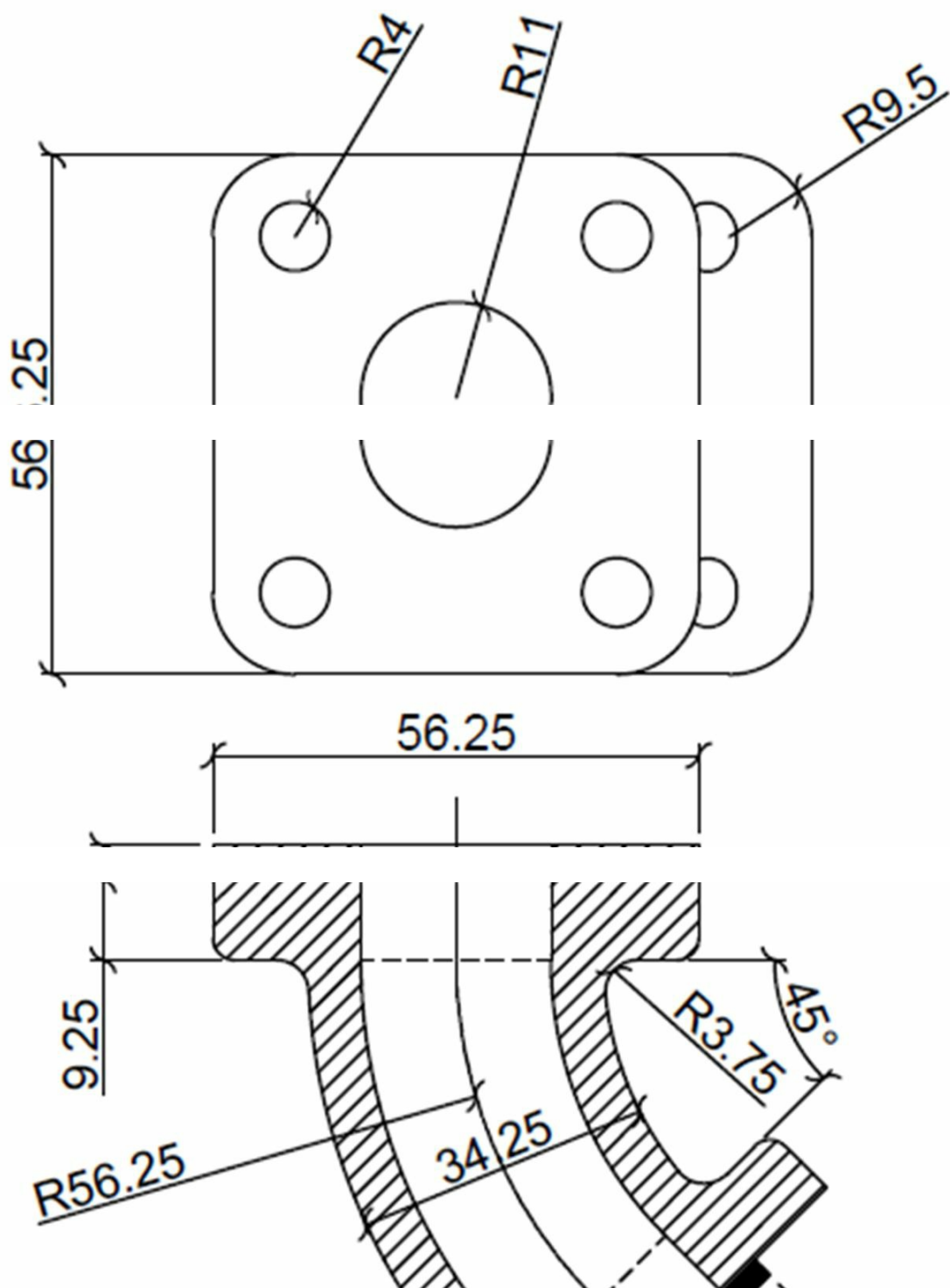


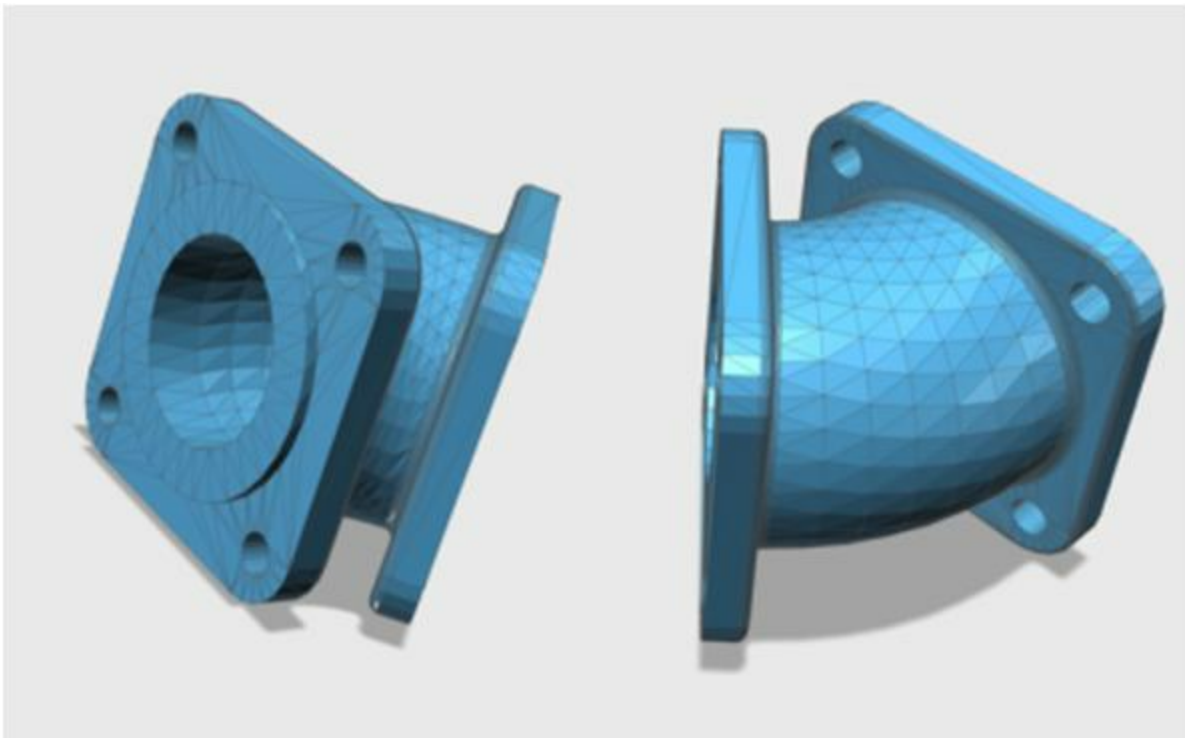
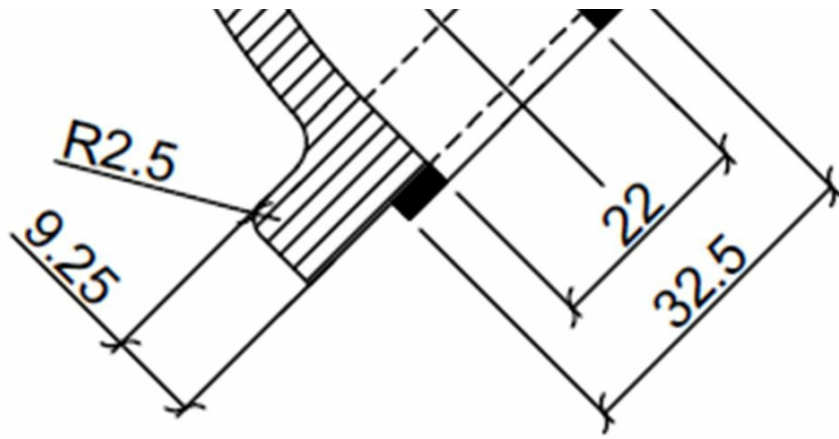
EXERCISE – MECHANICAL PART TWENTY TWO

2D

*****ebook converter DEMO Watermarks*****

3D

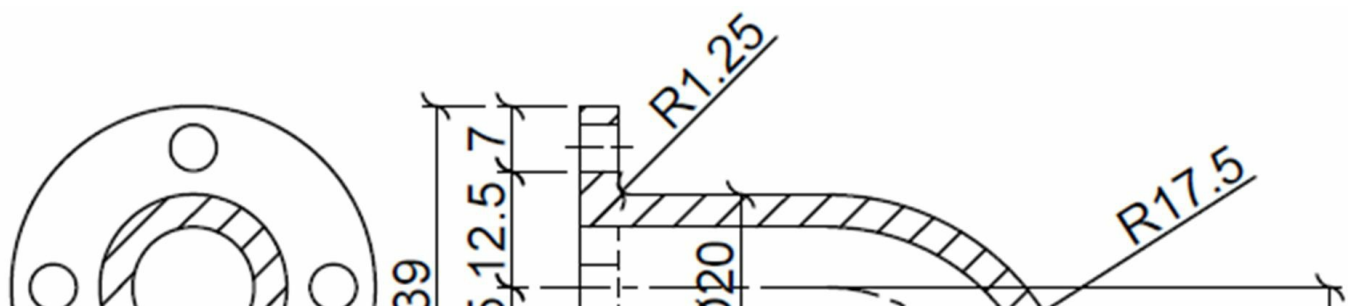




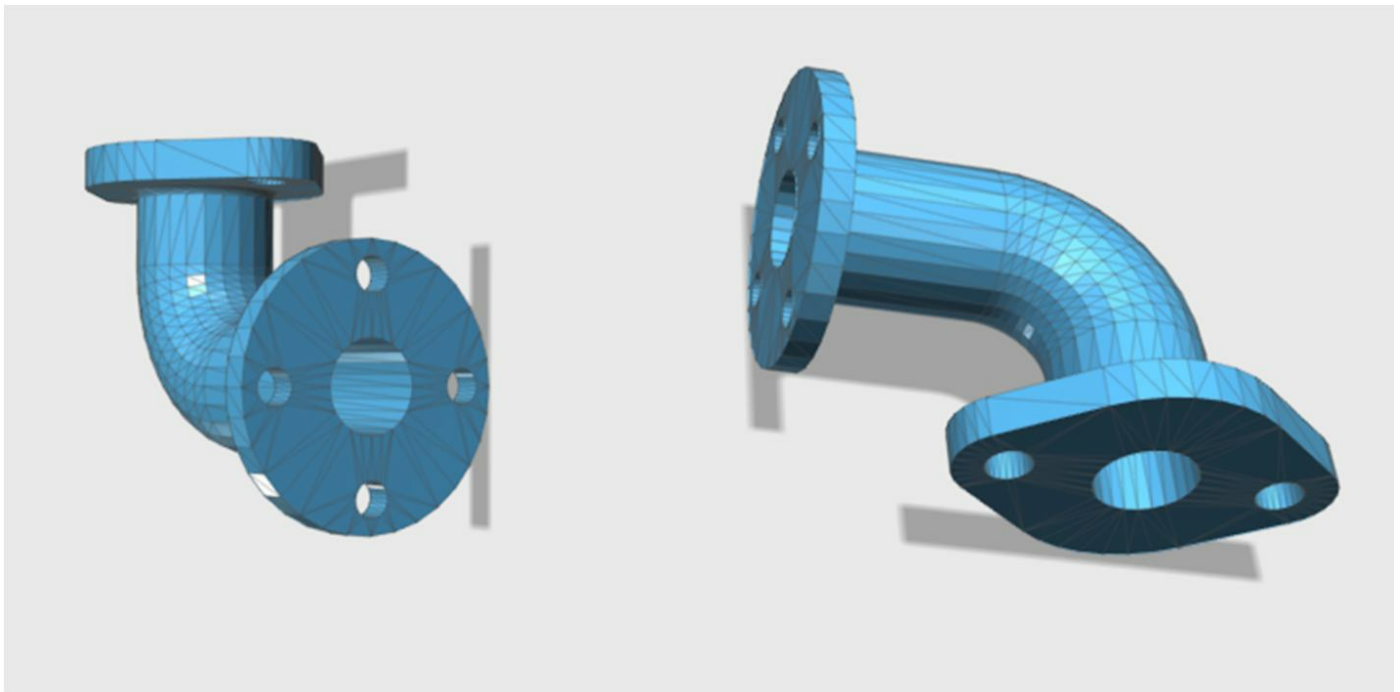
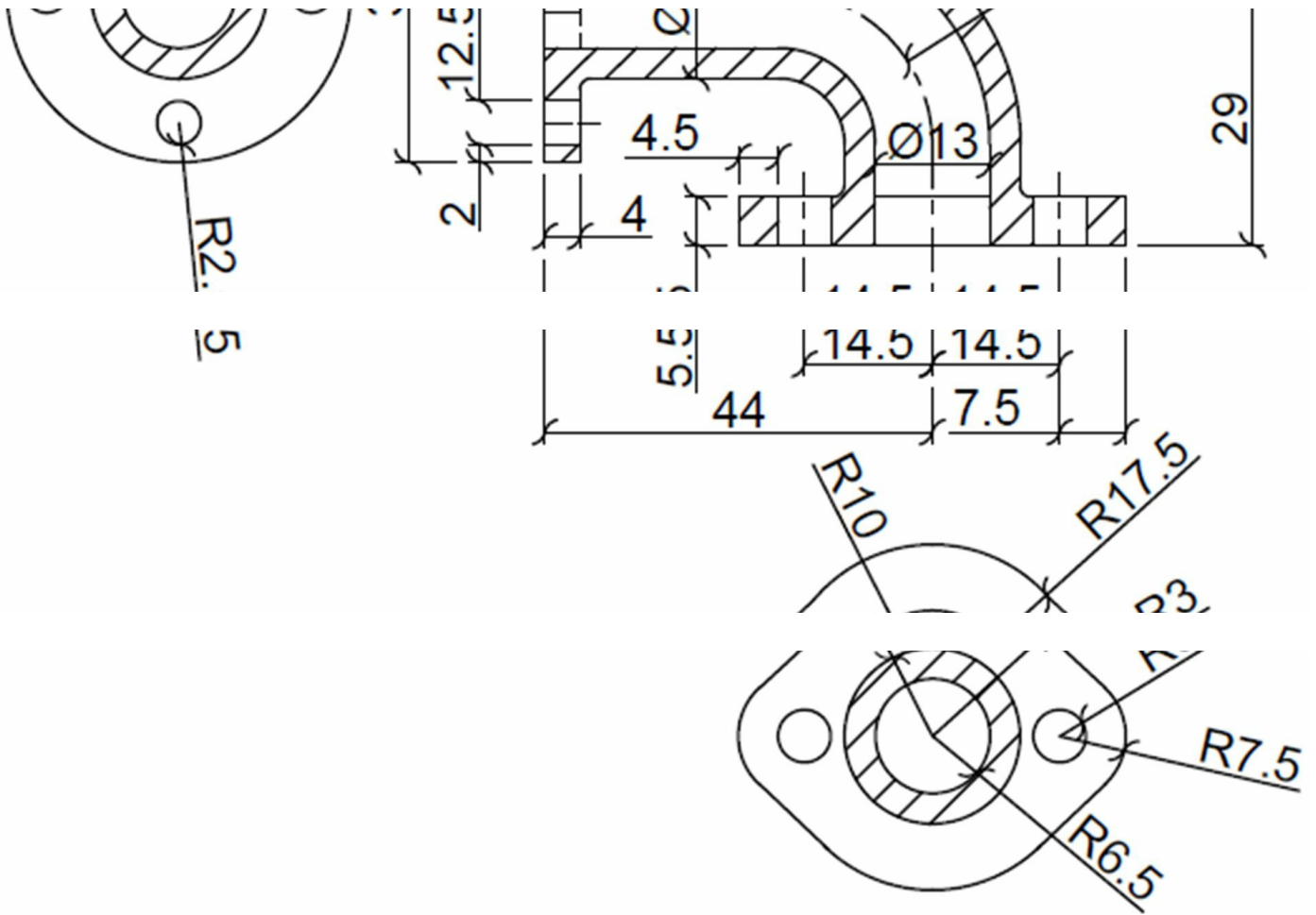
EXERCISE – PIPE ONE

2D

3D



*****ebook converter DEMO Watermarks*****

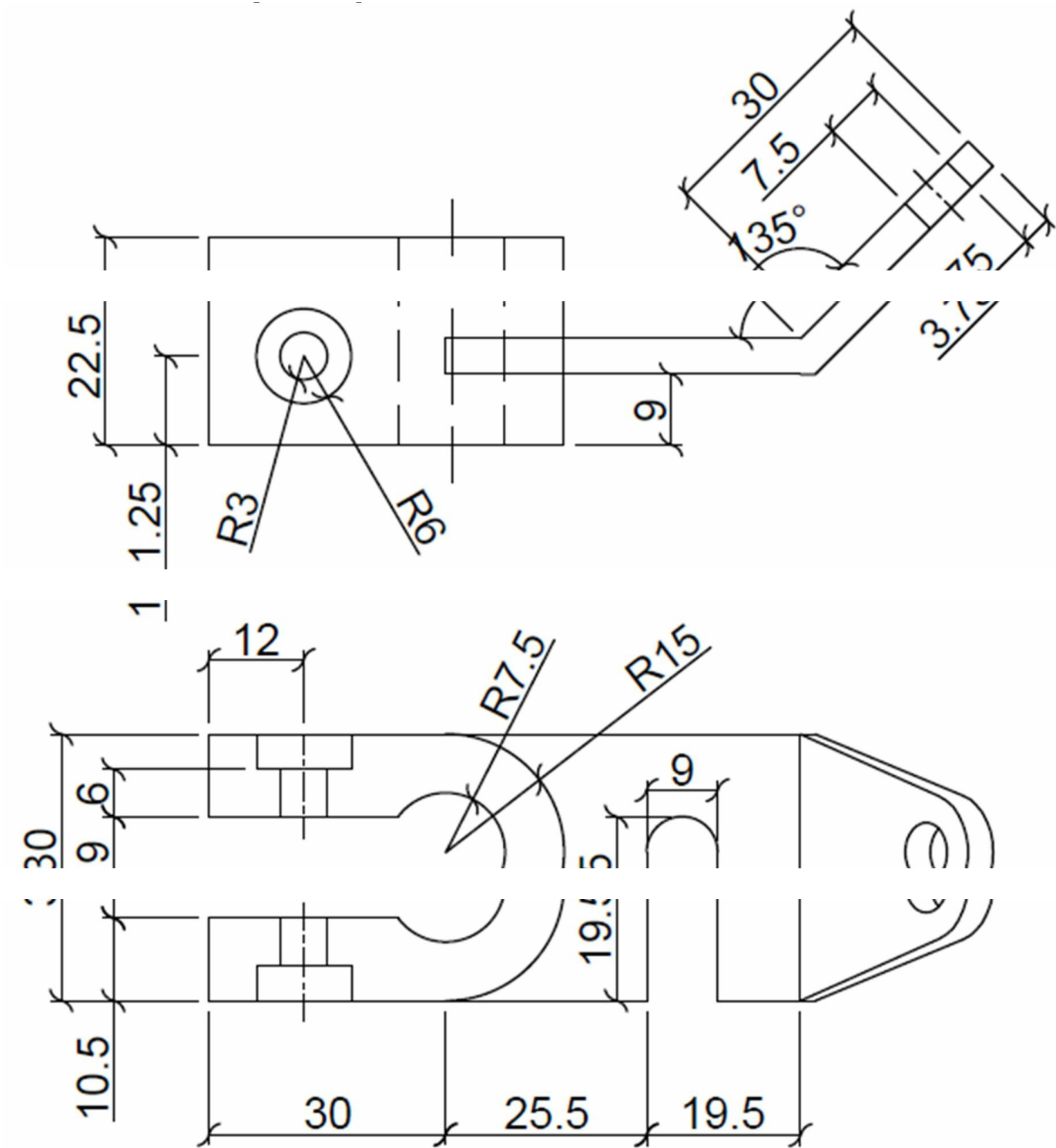


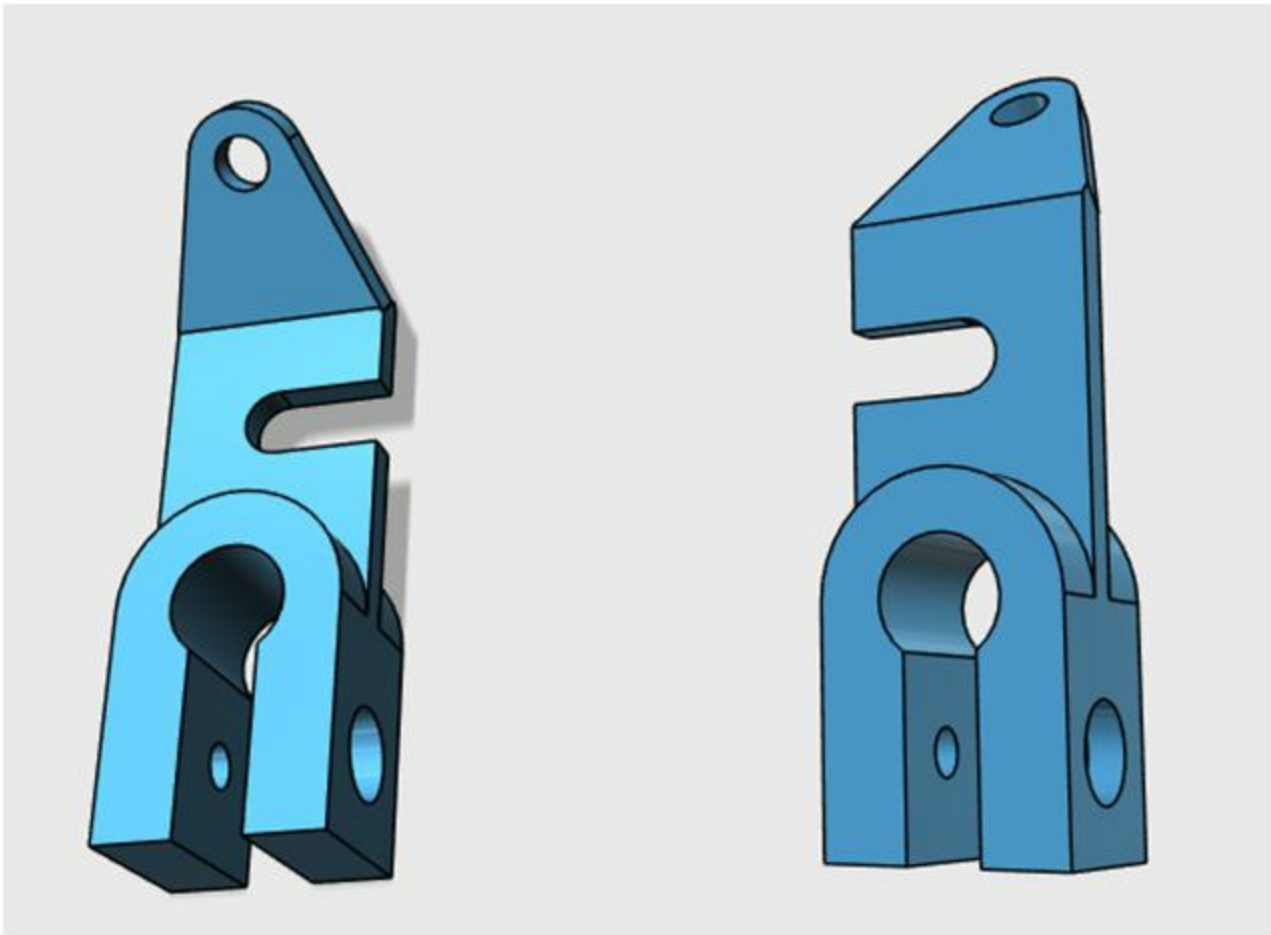
EXERCISE – PIPE TWO

*****ebook converter DEMO Watermarks*****

2D

3D



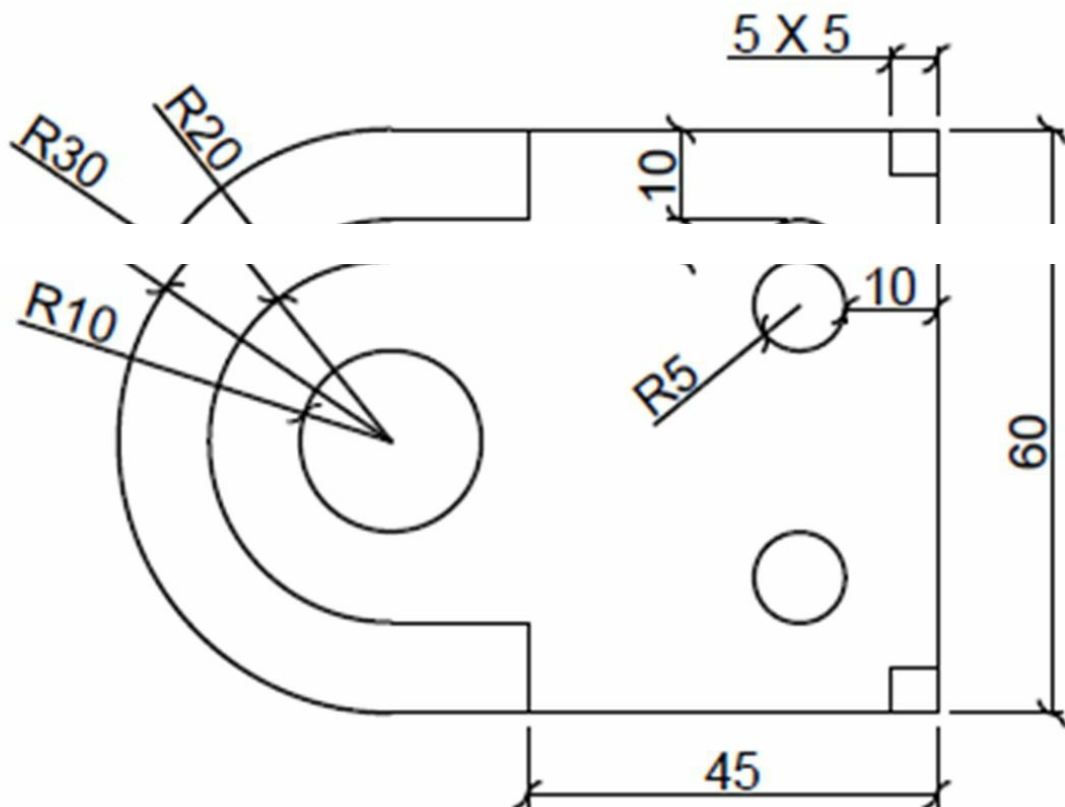
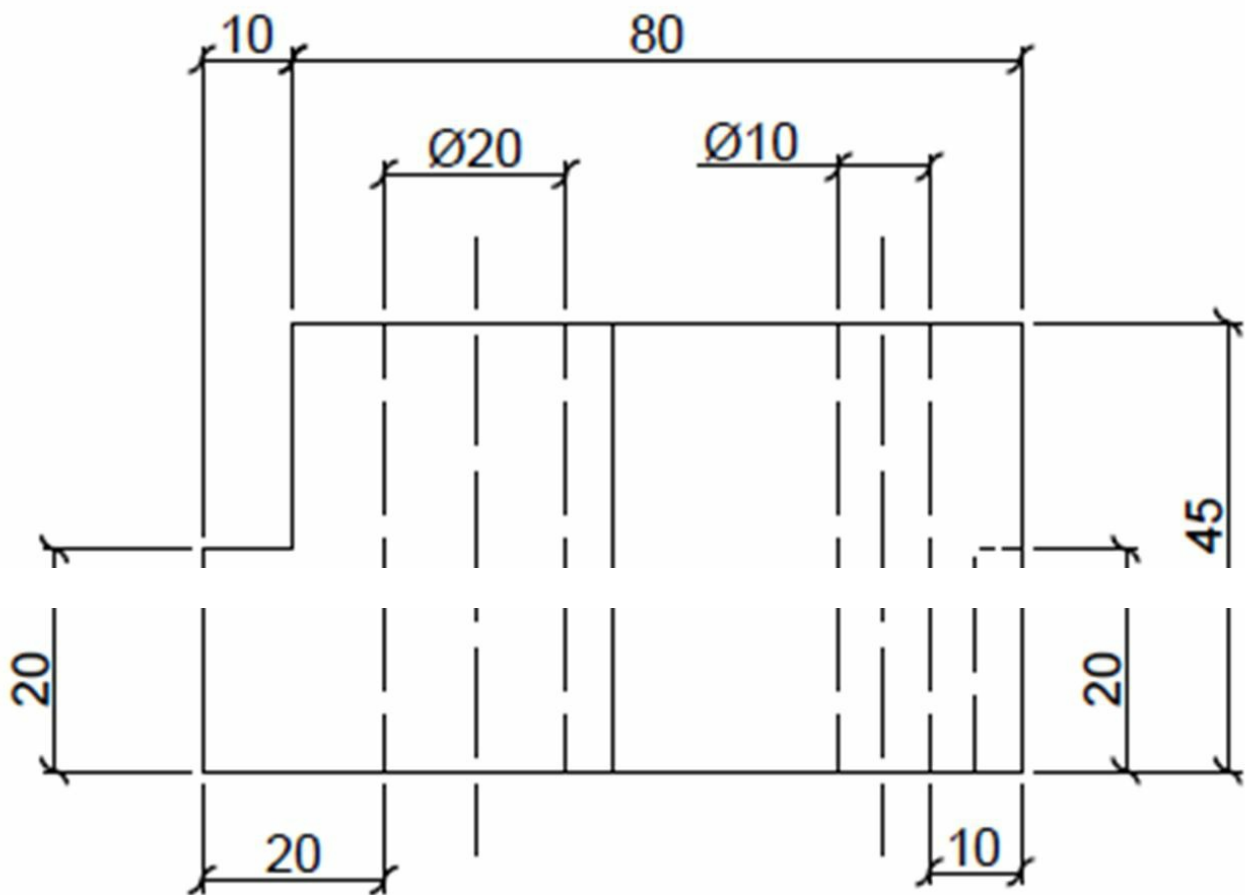


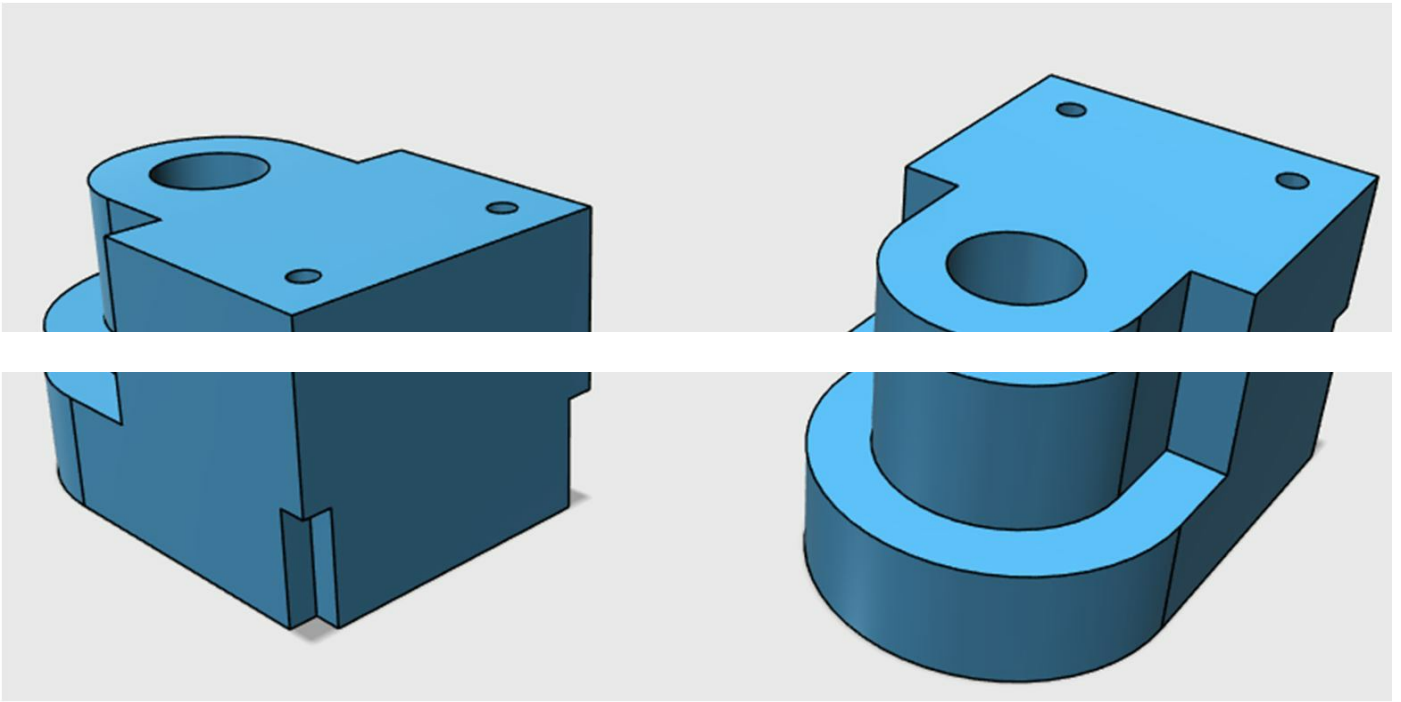
EXERCISE – MECHANICAL PART TWENTY THREE

2D

The thickness of the right hand part is 4.5mm

3D

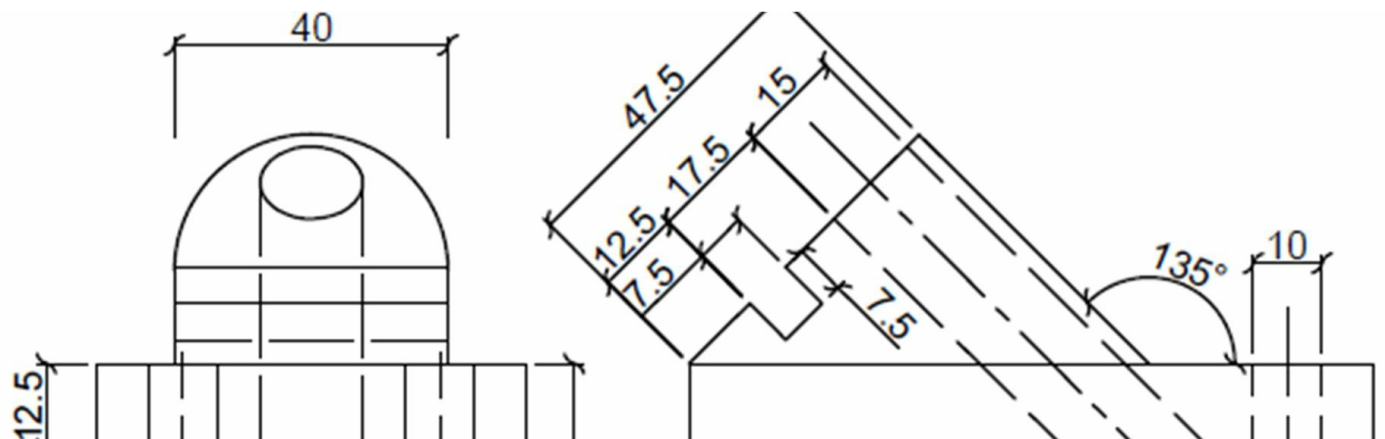


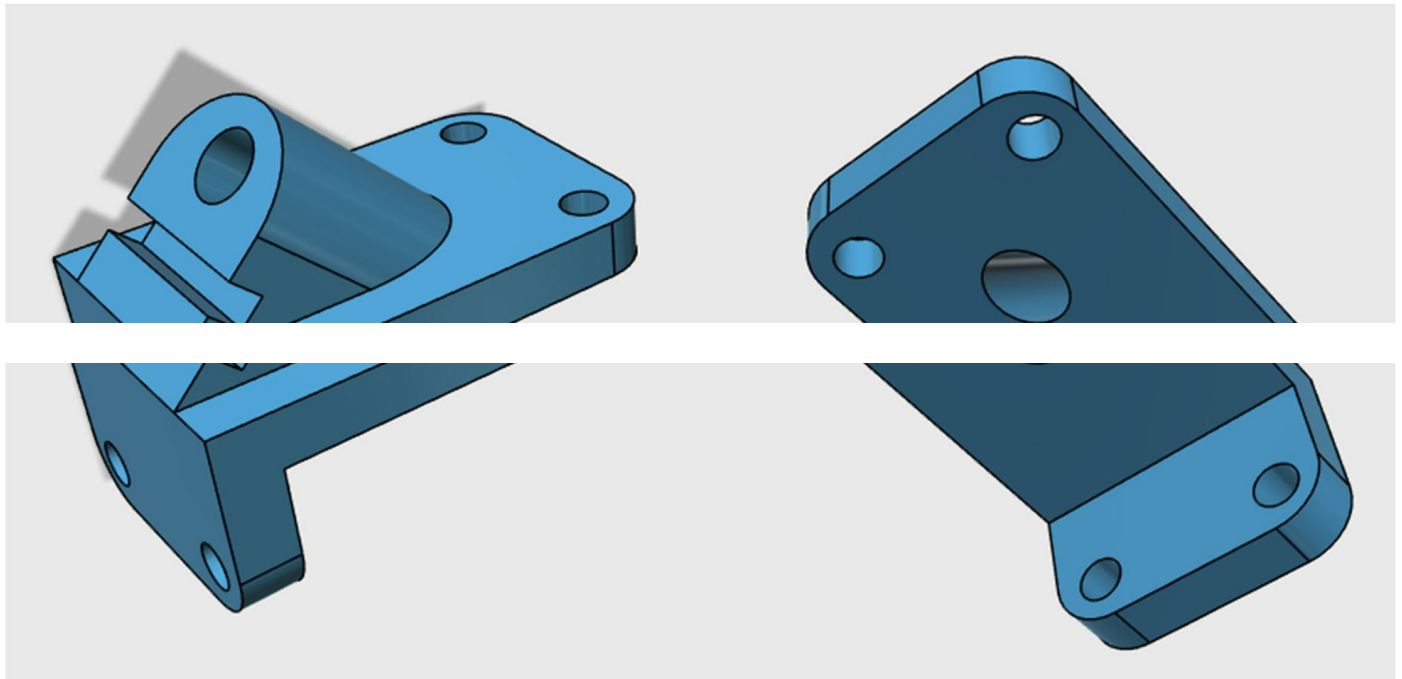
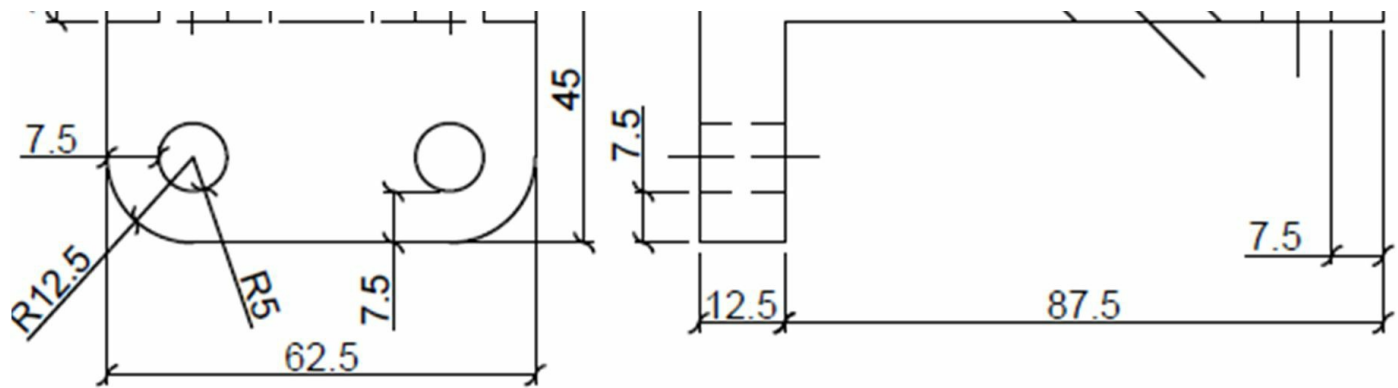


EXERCISE – MECHANICAL PART TWENTY FOUR

2D

3D





EXERCISE – MECHANICAL PART TWENTY FIVE

2D

3D

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