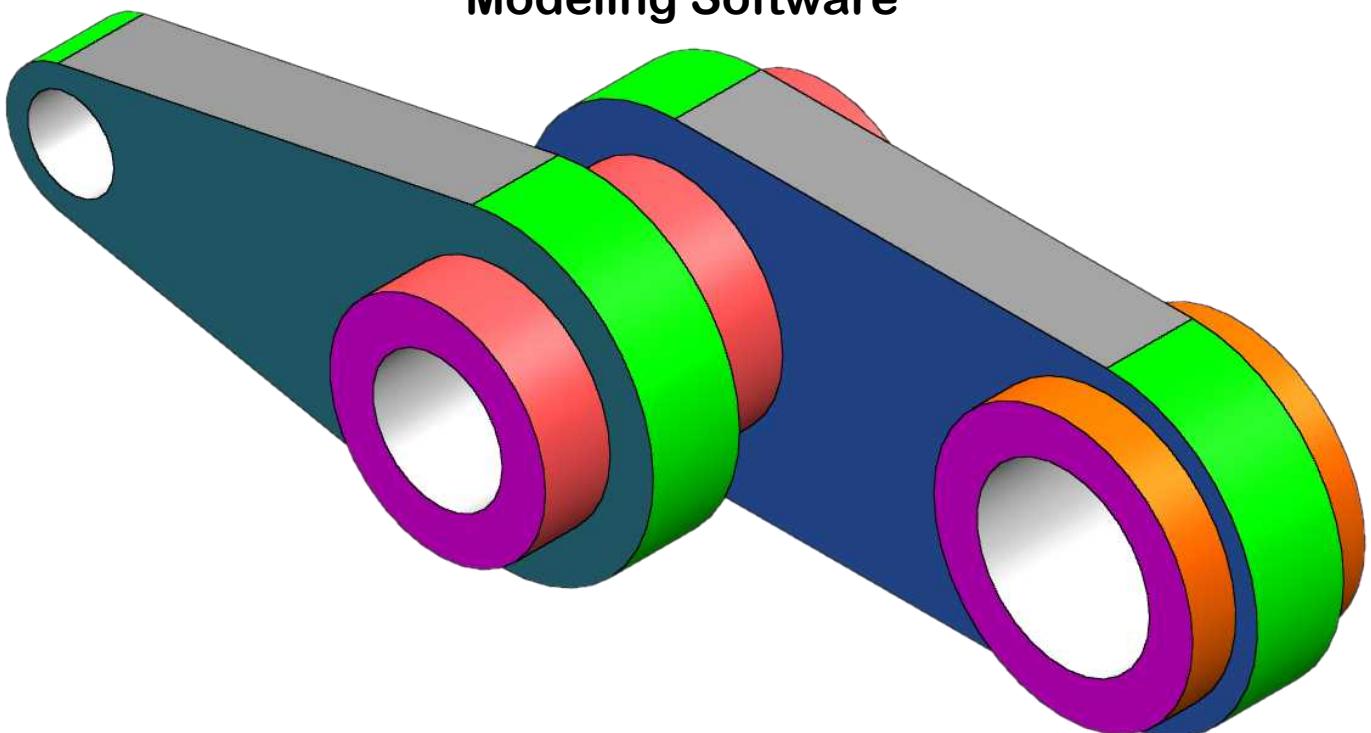


SOLIDWORKS

200 EXERCISES

**For SolidWorks and Other Feature-Based
Modeling Software**



**200 Practice Exercises, 3D Models & Drawings
For Beginner, Intermediate and Advance users**

SACHIDANAND JHA

SOLIDWORKS 200 EXERCISES

SACHIDANAND JHA



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SOLIDWORKS 200 EXERCISES

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Preface

SolidWorks is a solid modeling computer-aided design (CAD) and computer-aided engineering (CAE) computer program that runs on Microsoft Windows. SolidWorks is published by Dassault Systèmes.

SolidWorks is a solid modeler, and utilizes a parametric feature-based approach which was initially developed by PTC (Creo/Pro-Engineer) to create models and assemblies.

SOLIDWORKS 200 EXERCISES book contains 200 CAD practice exercises and drawings. This book does not provide step by step tutorial to design 3D models.

This book consists 200 Practice Exercises, 3D Models & Drawings which can be used for practice on SOLIDWORKS, CATIA, NX, CREO, SOLID EDGE, AUTODESK INVENTOR and other feature based modeling softwares.

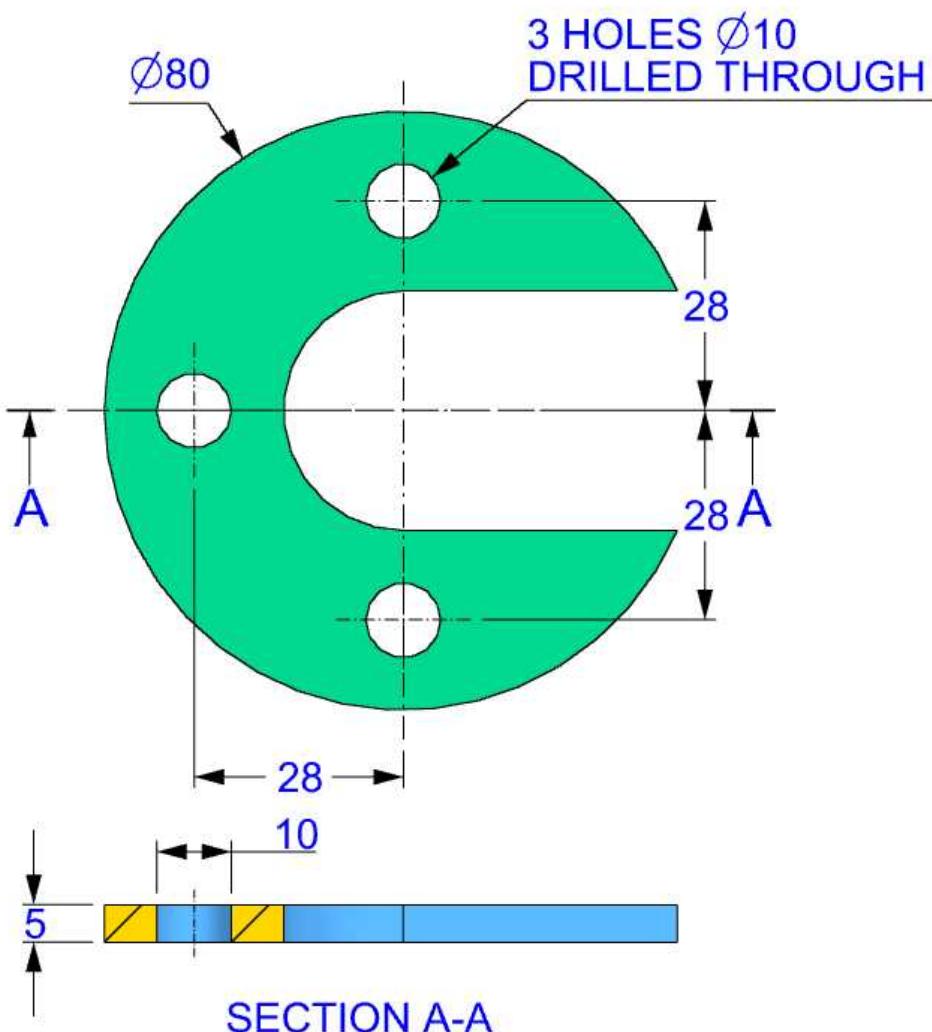
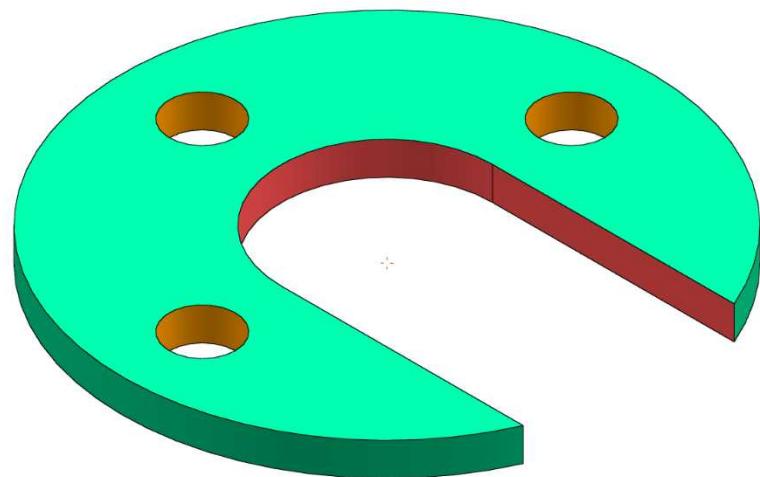
This book is for Beginner, Intermediate and Advance CAD users. These exercises are from Basics to Advance level. Each exercises can be assigned and designed separately. No Exercise is a prerequisite for another. All dimensions are in mm.

Note: Assume any missing dimensions.

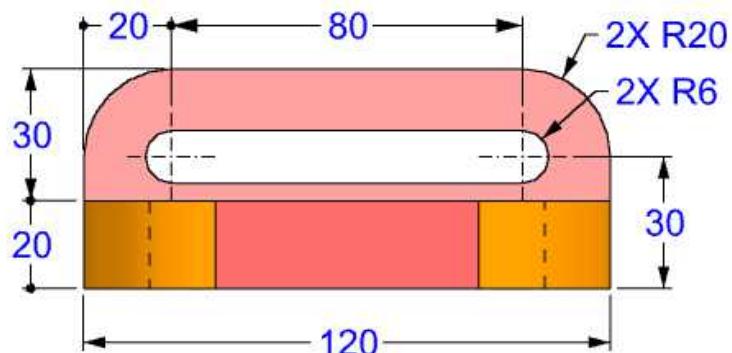
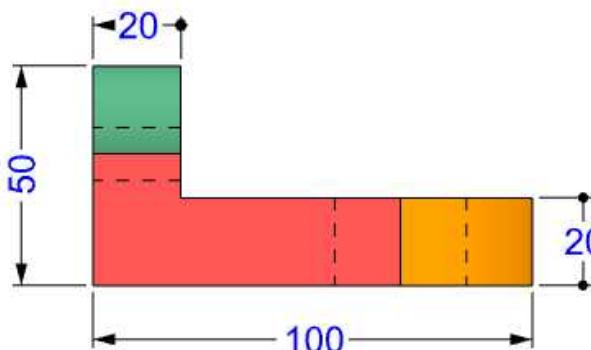
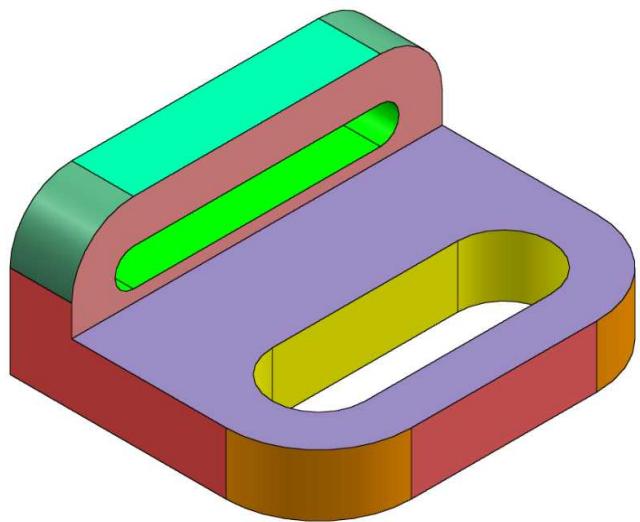
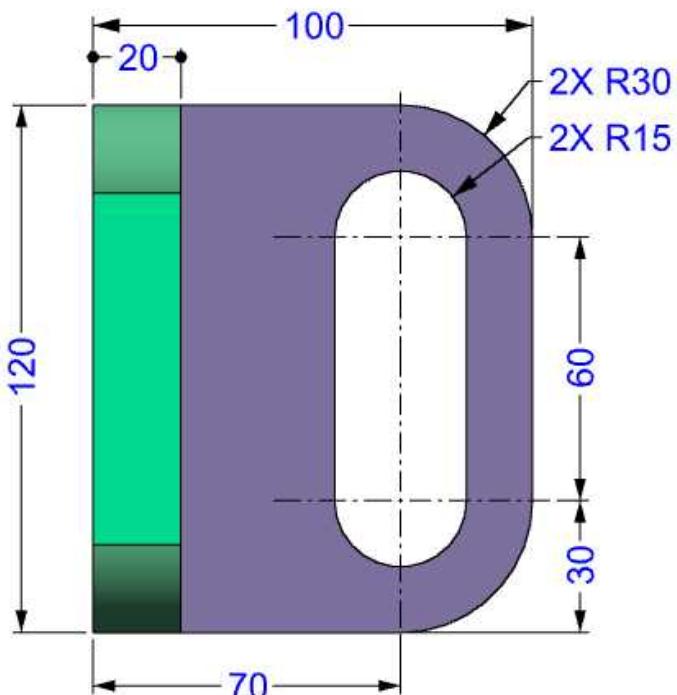
Prerequisites

To design & develop models, You should have knowledge of Solidworks. Student should have knowledge of Orthographic views and projections. Student should have basic knowledge of Engineering drawings.

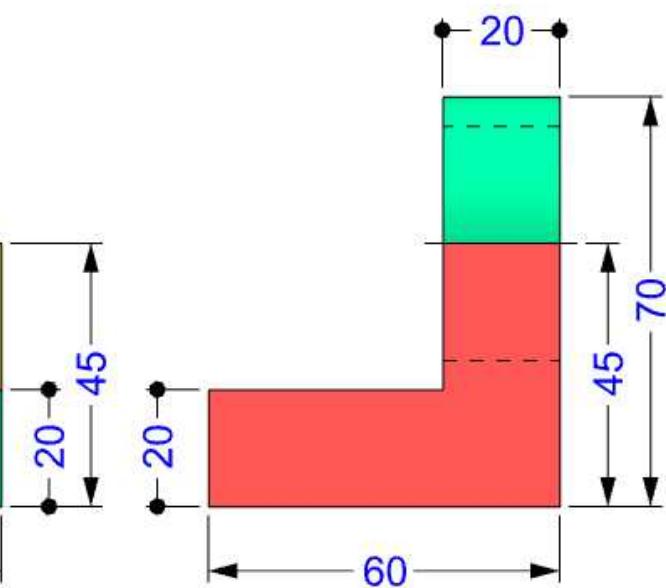
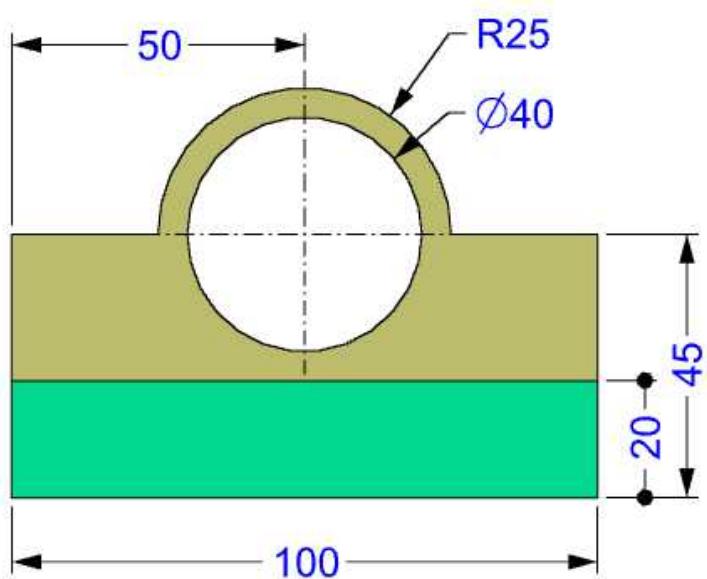
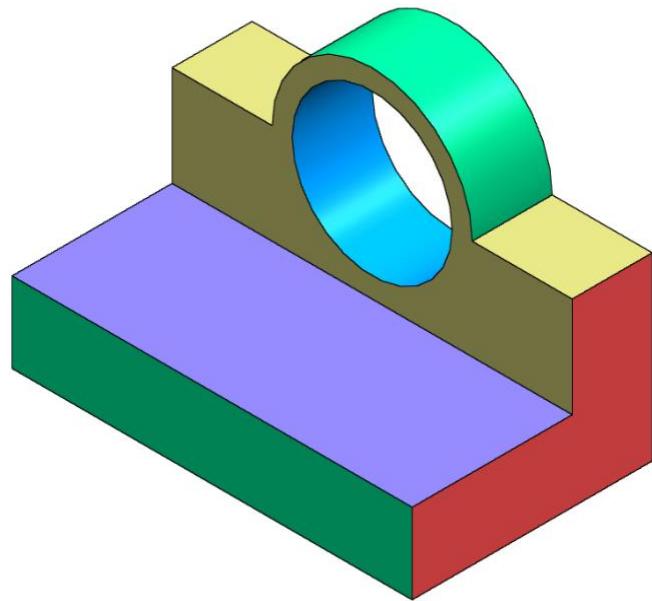
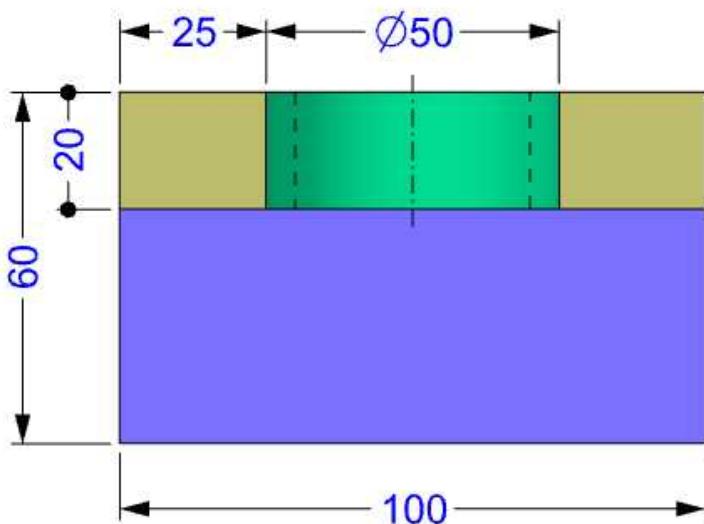
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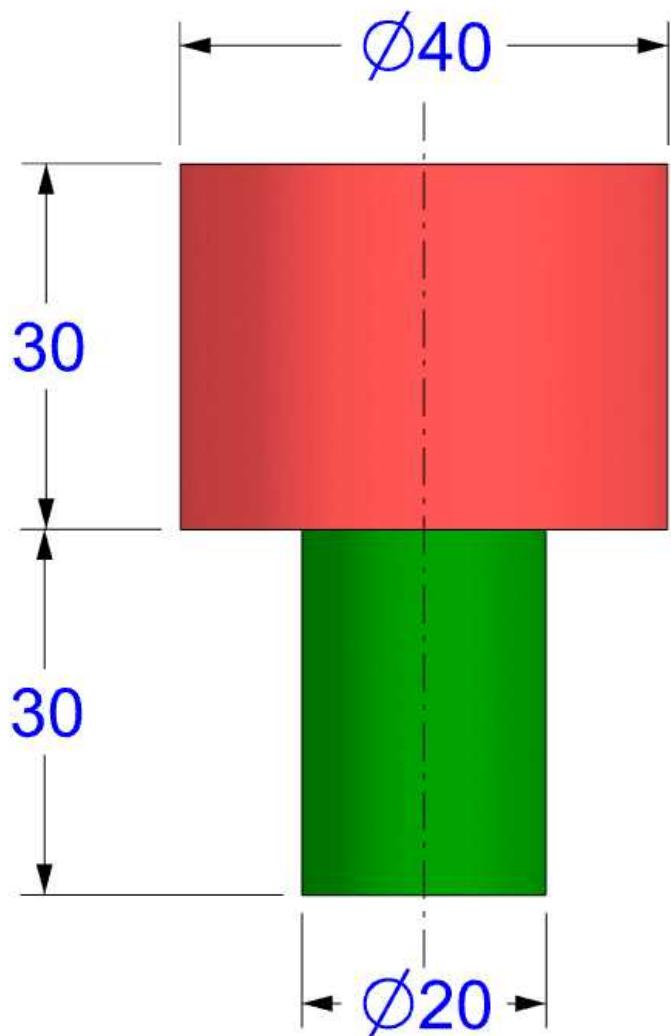
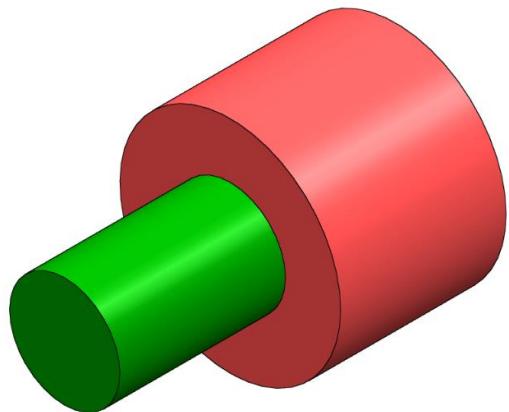
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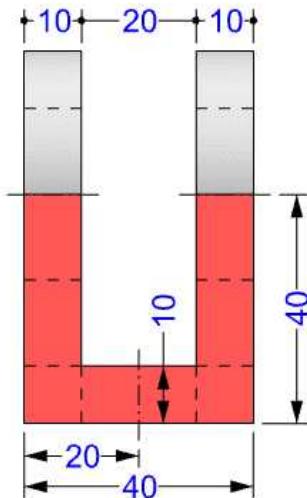
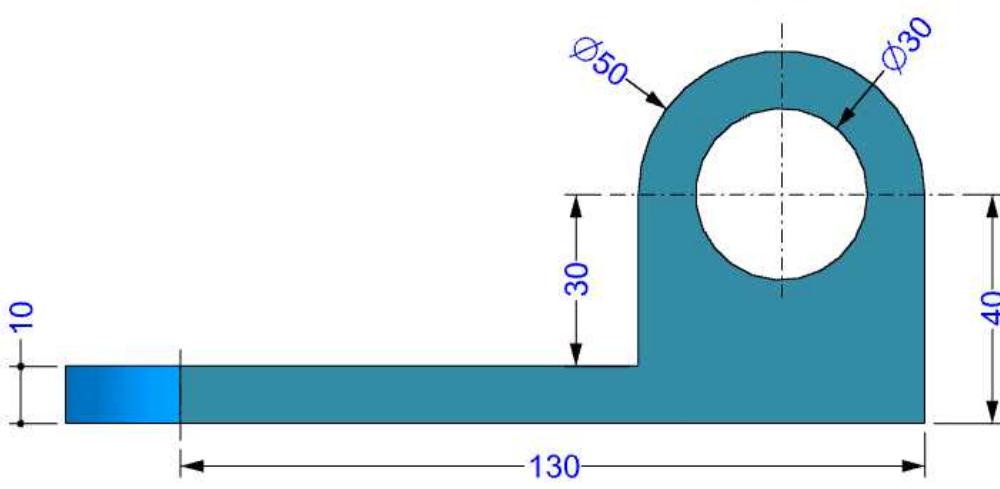
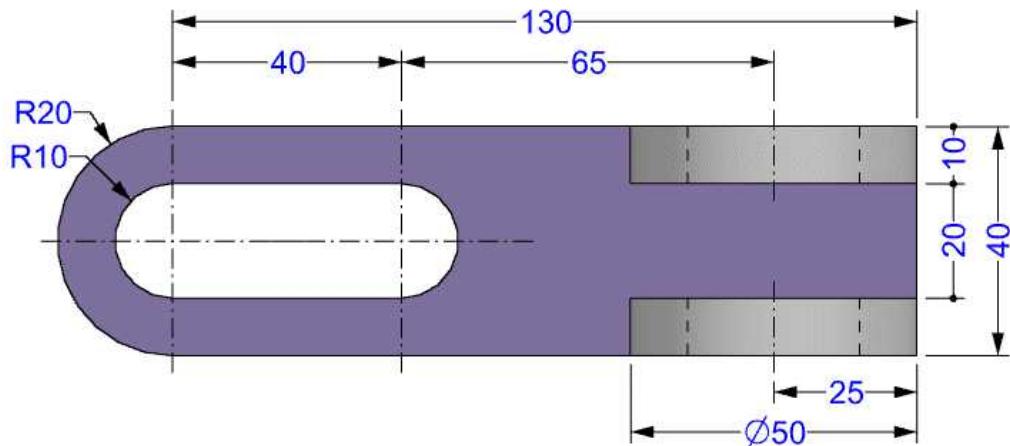
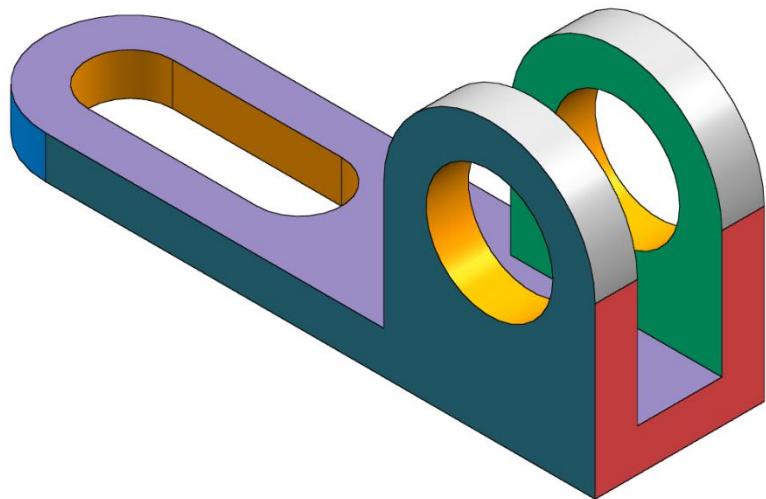
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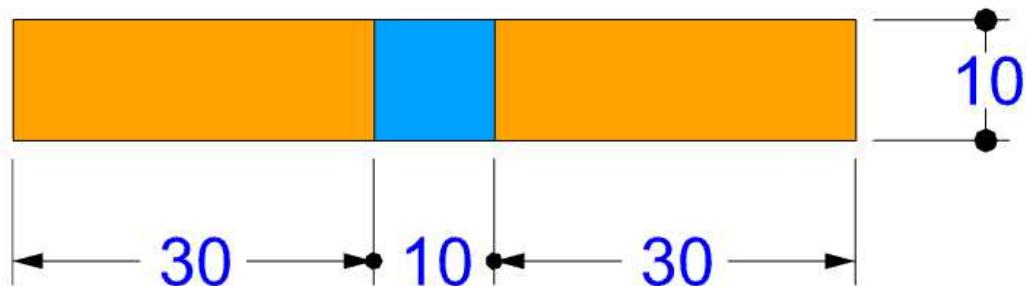
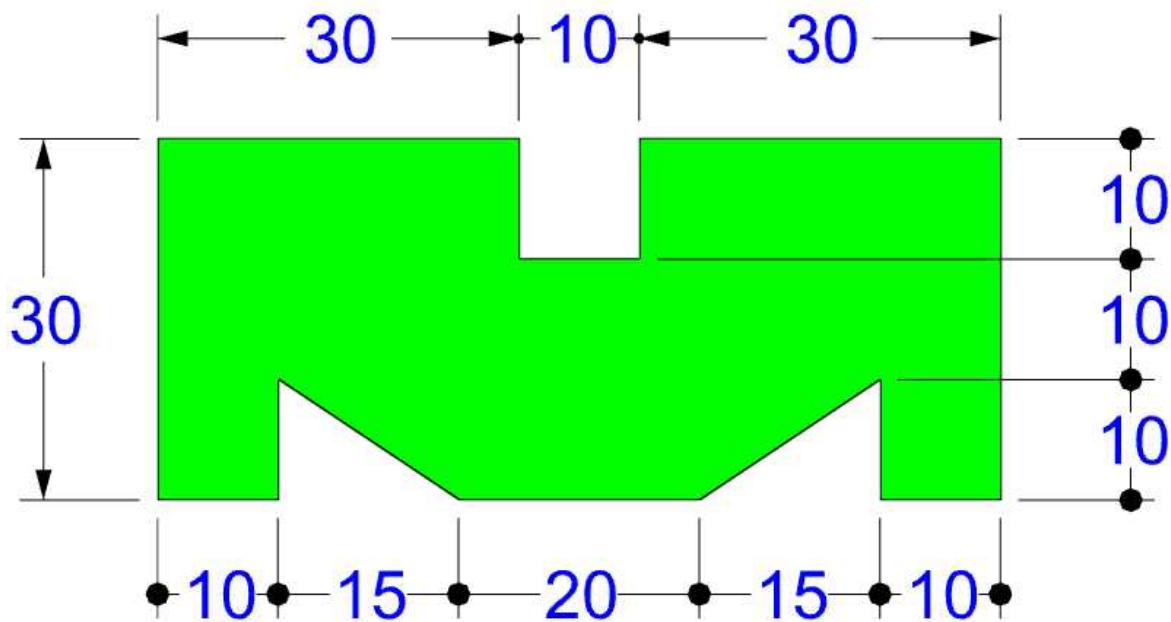
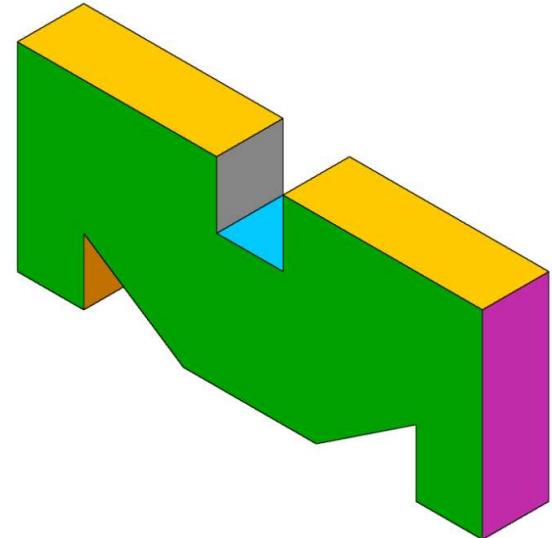
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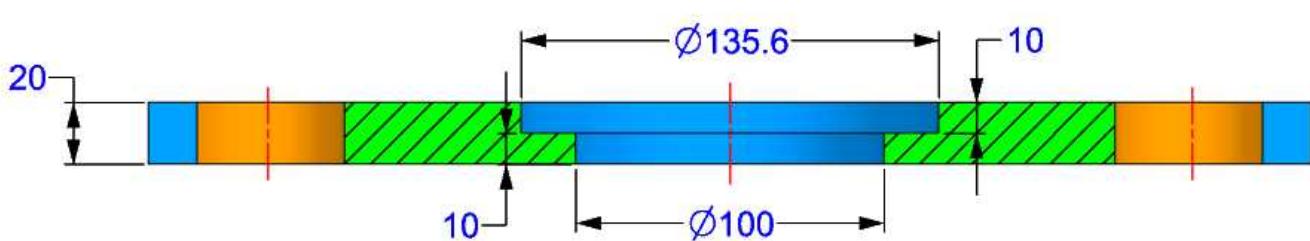
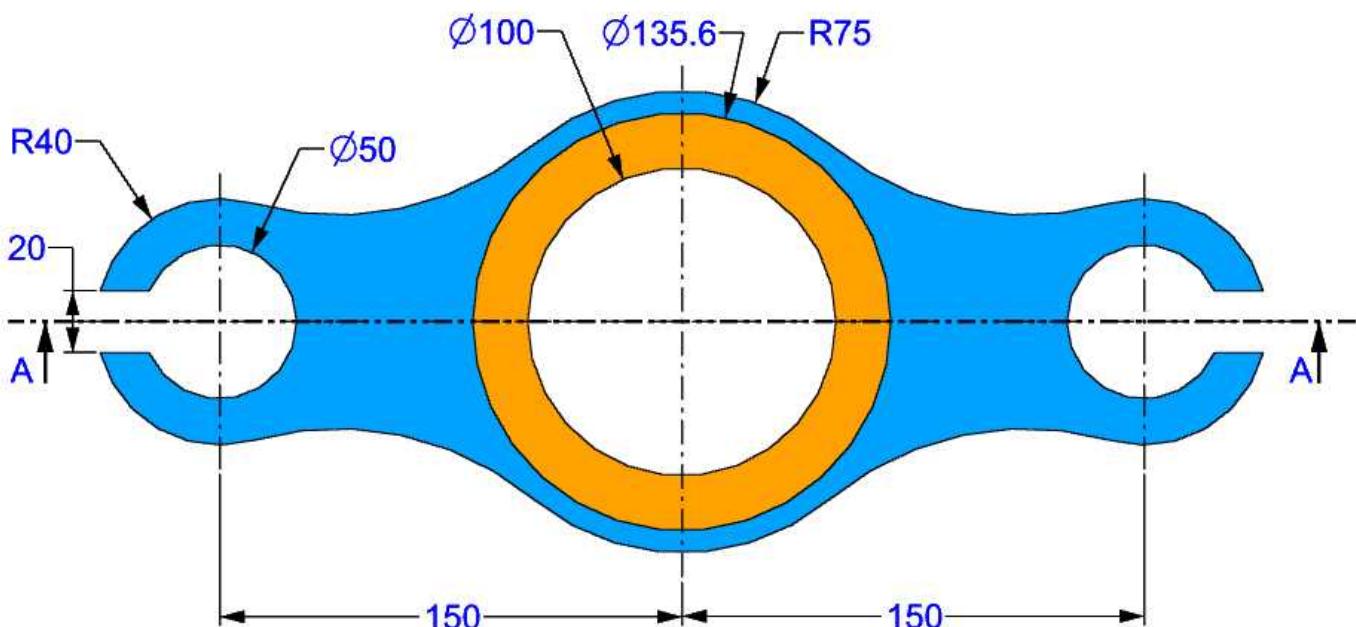
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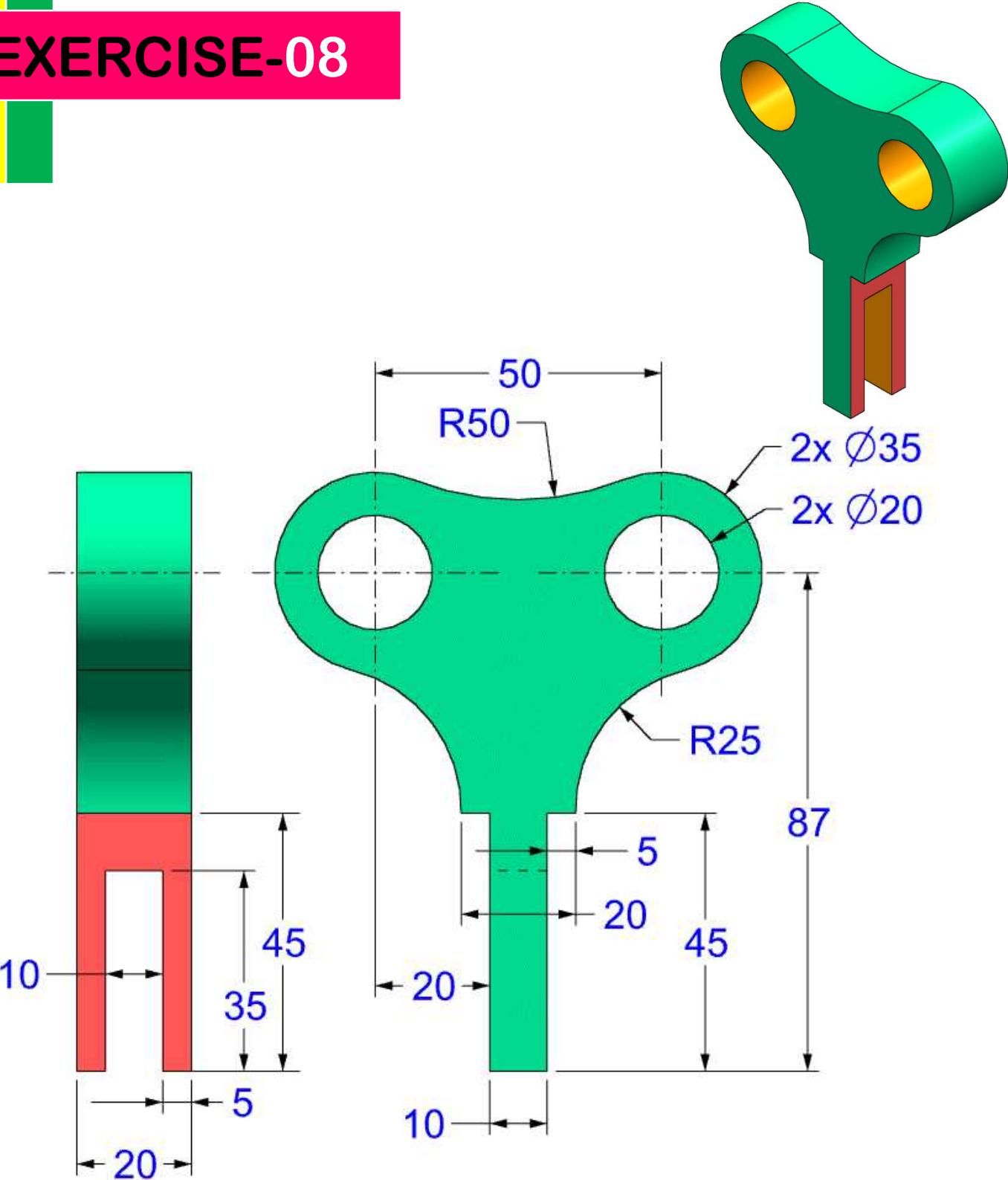


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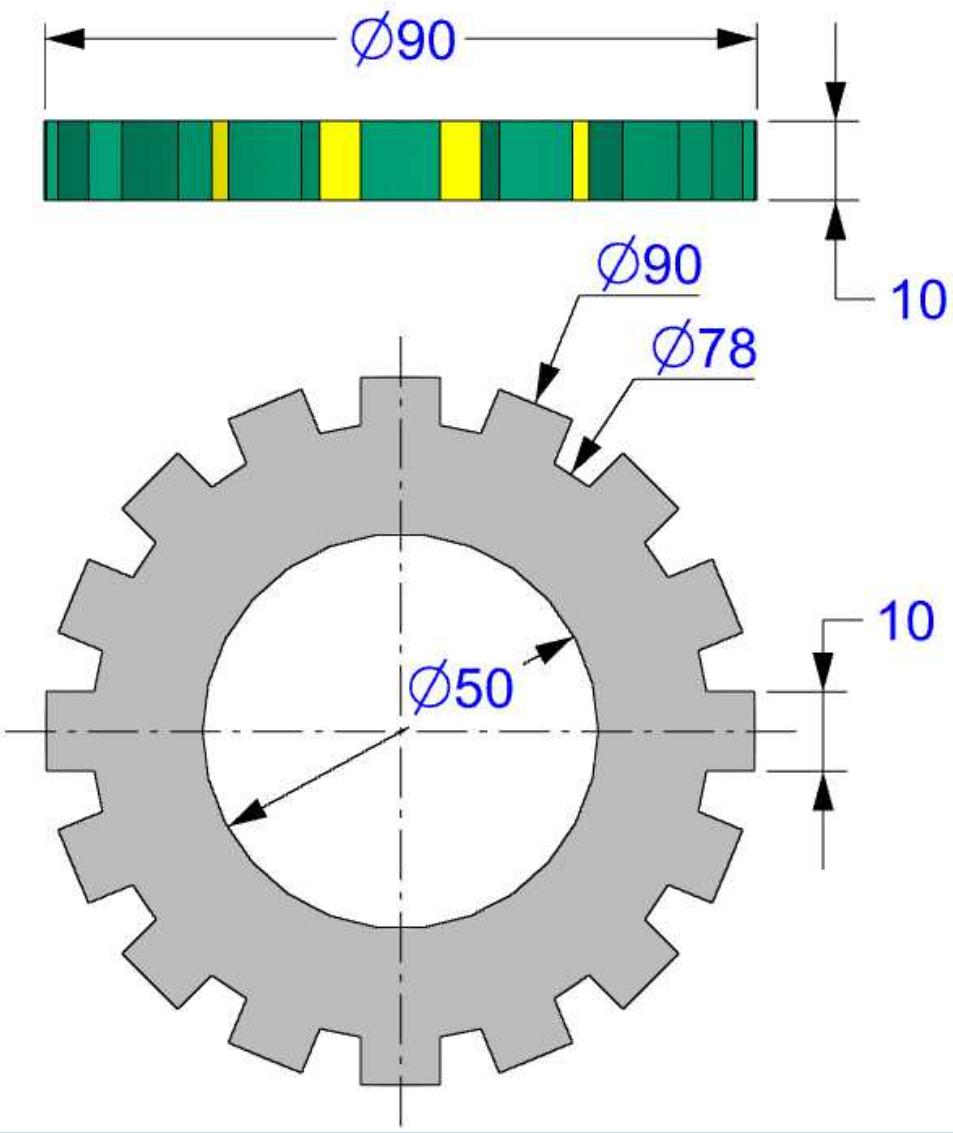
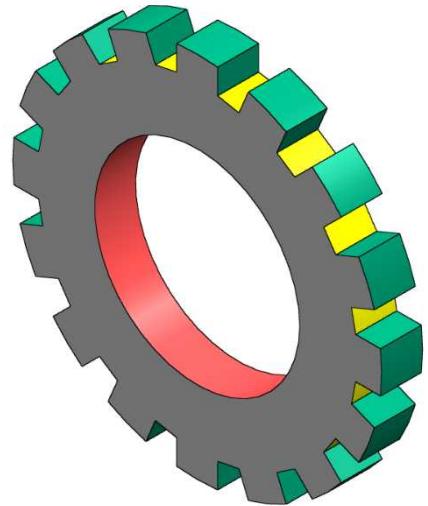


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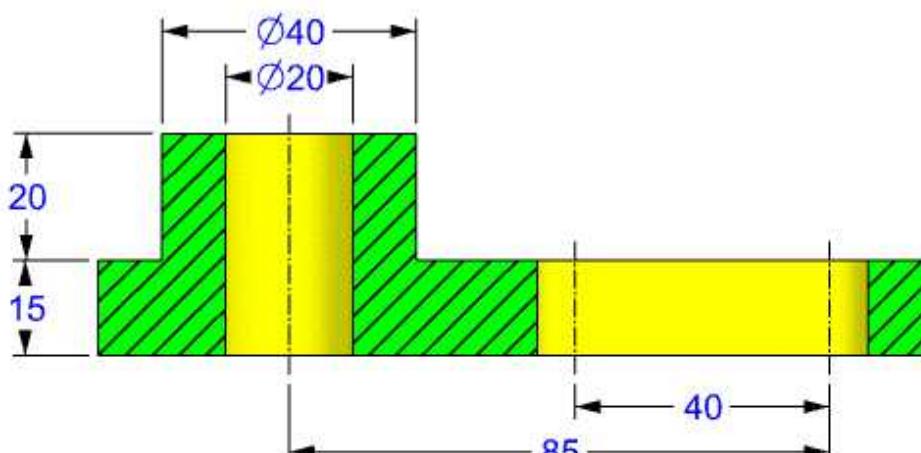
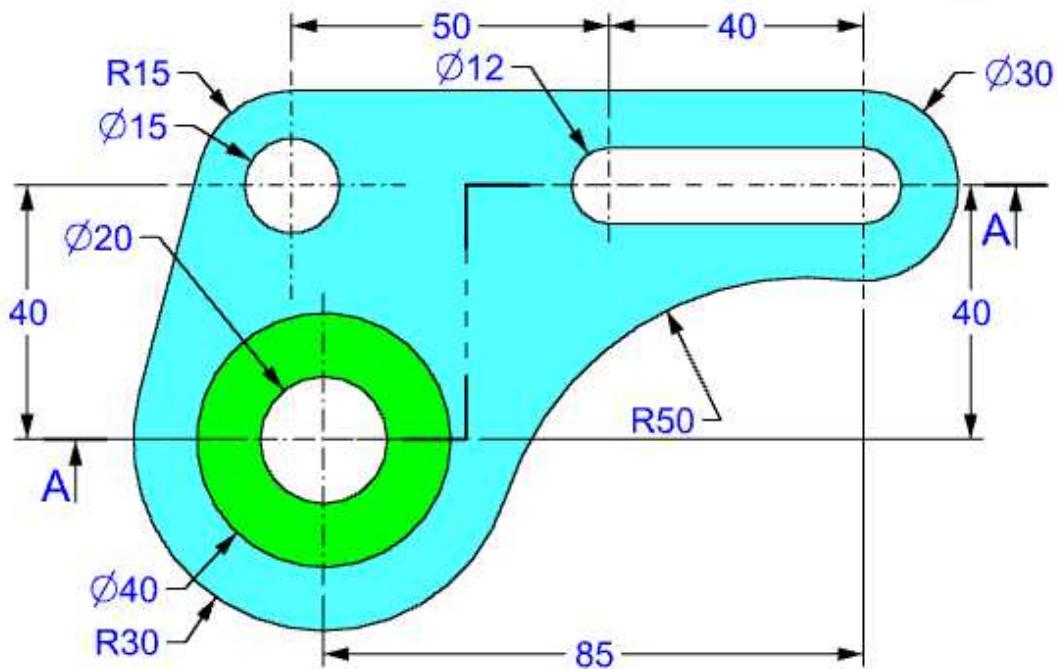
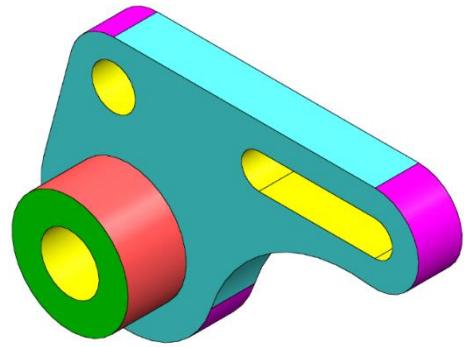
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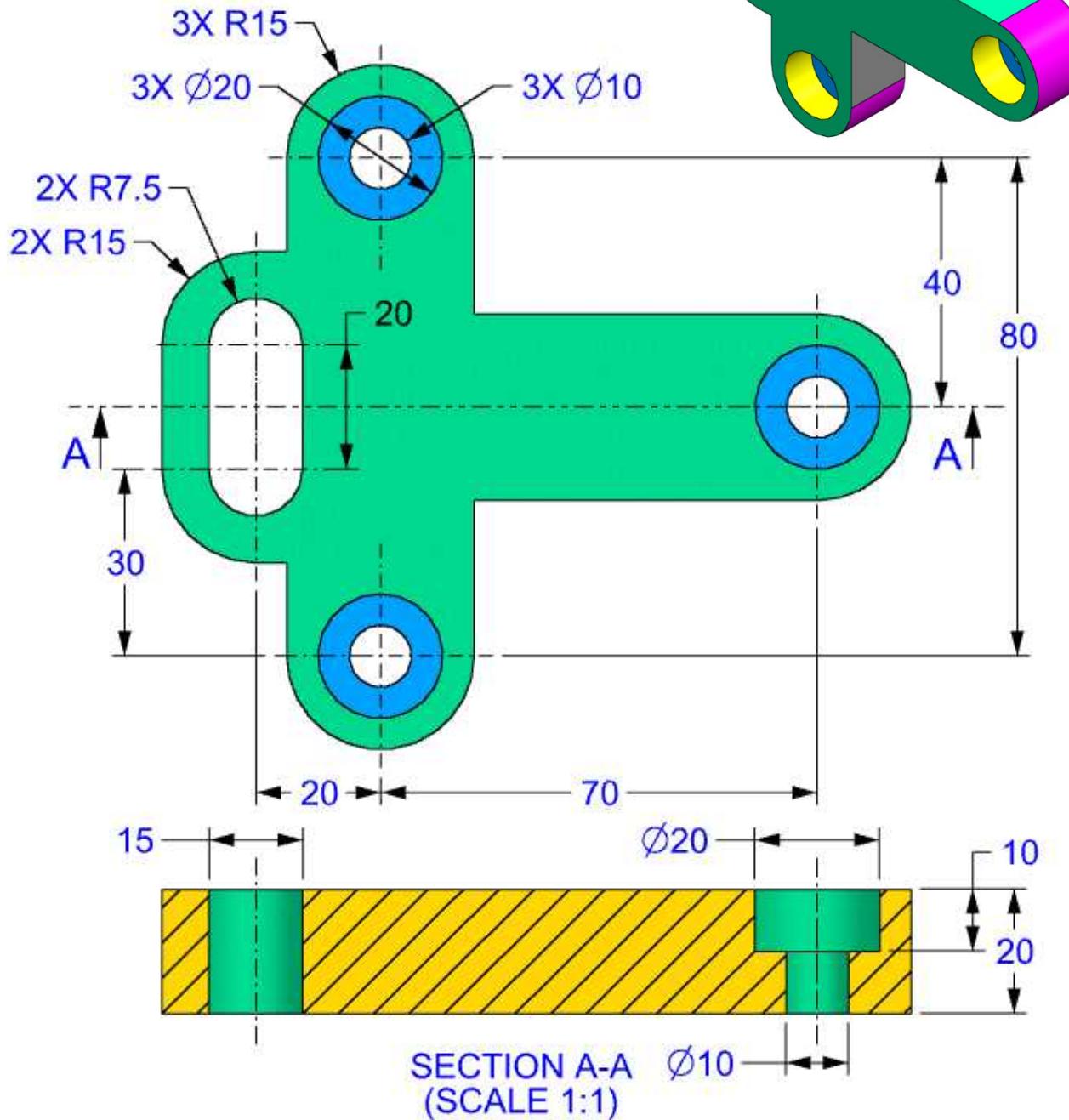
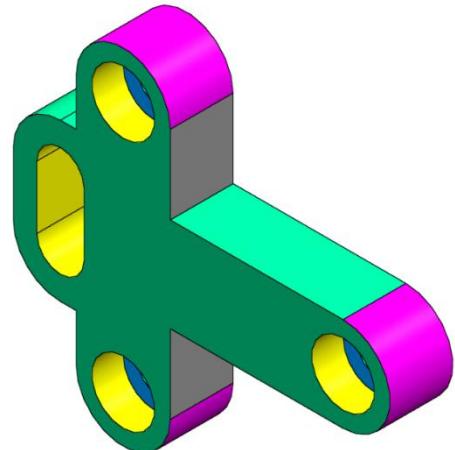


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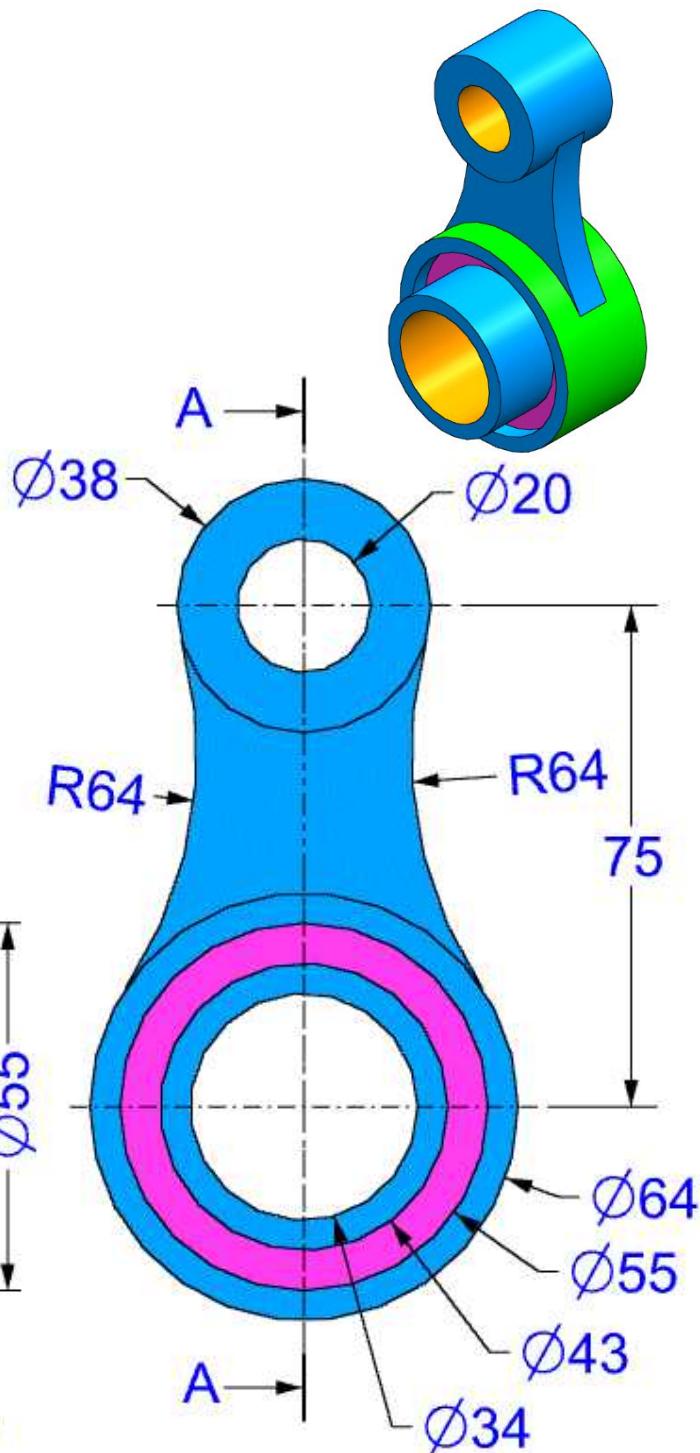
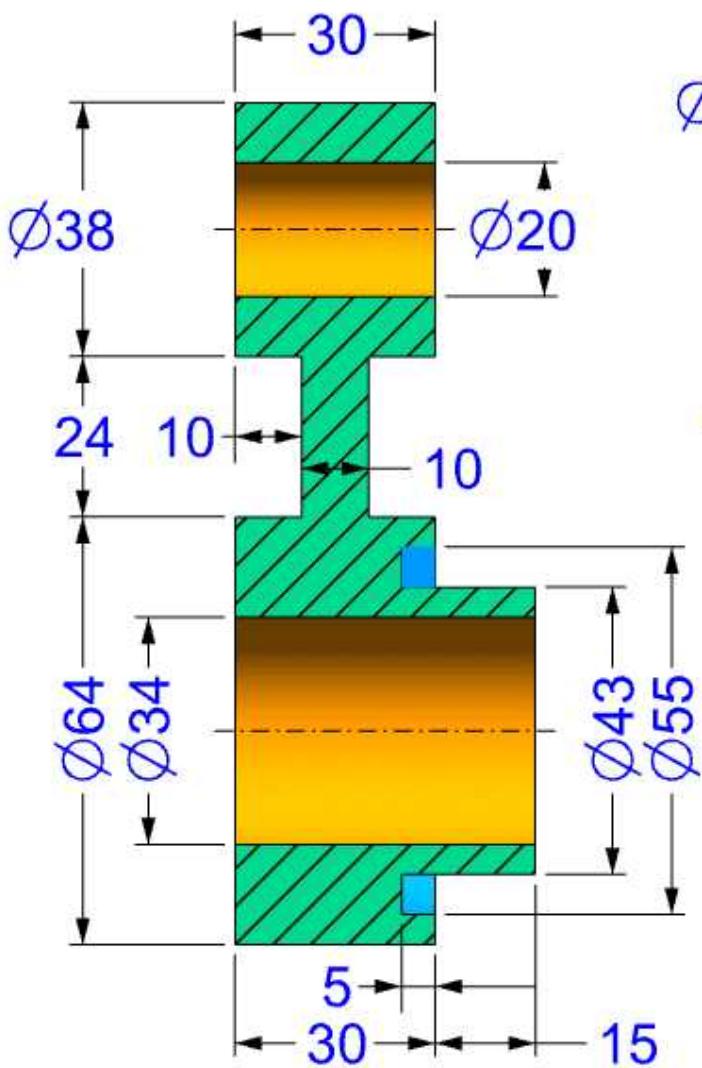


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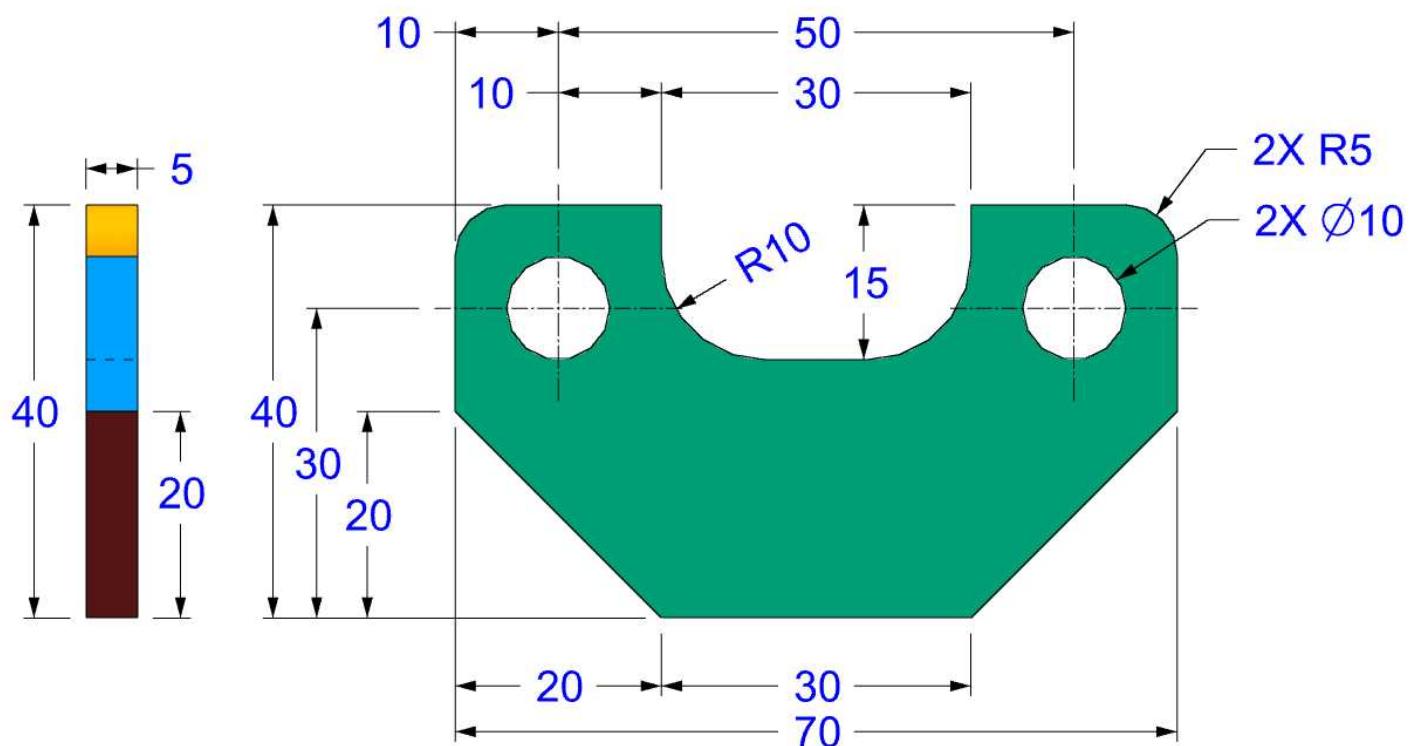
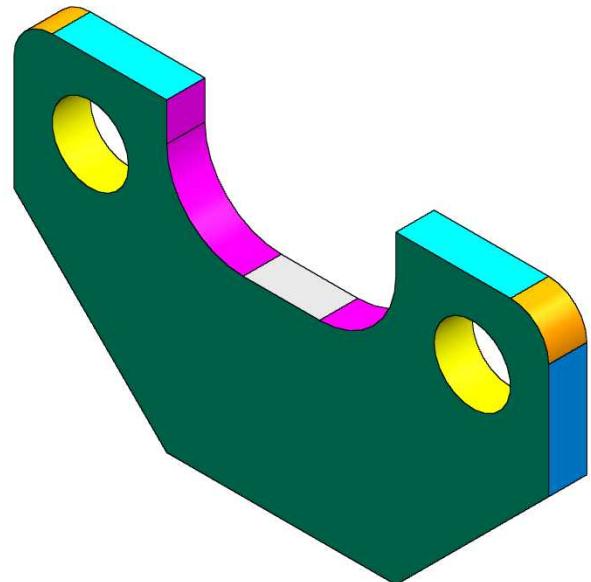


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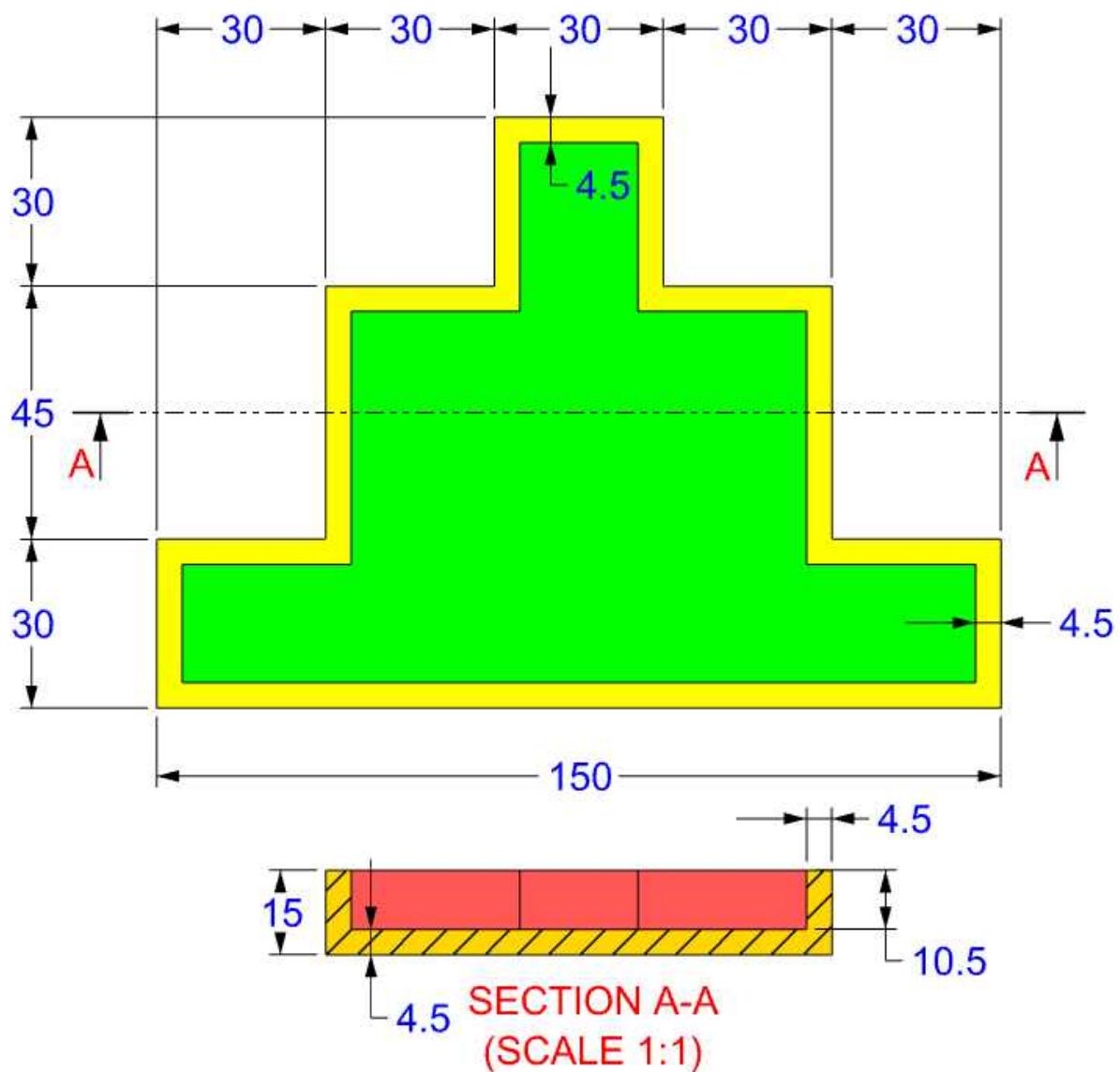
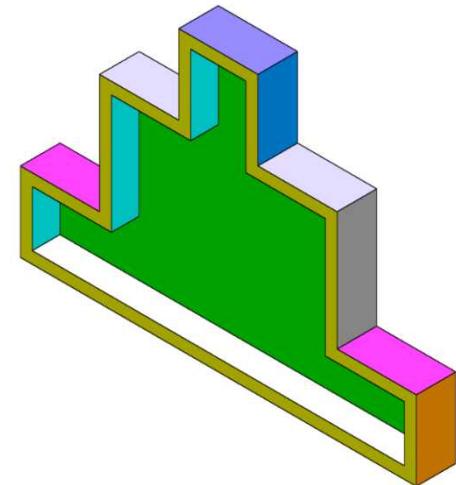


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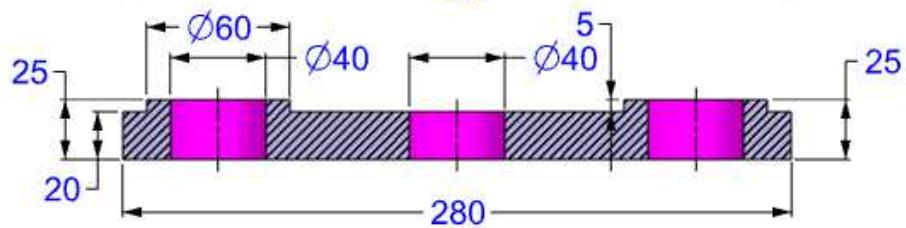
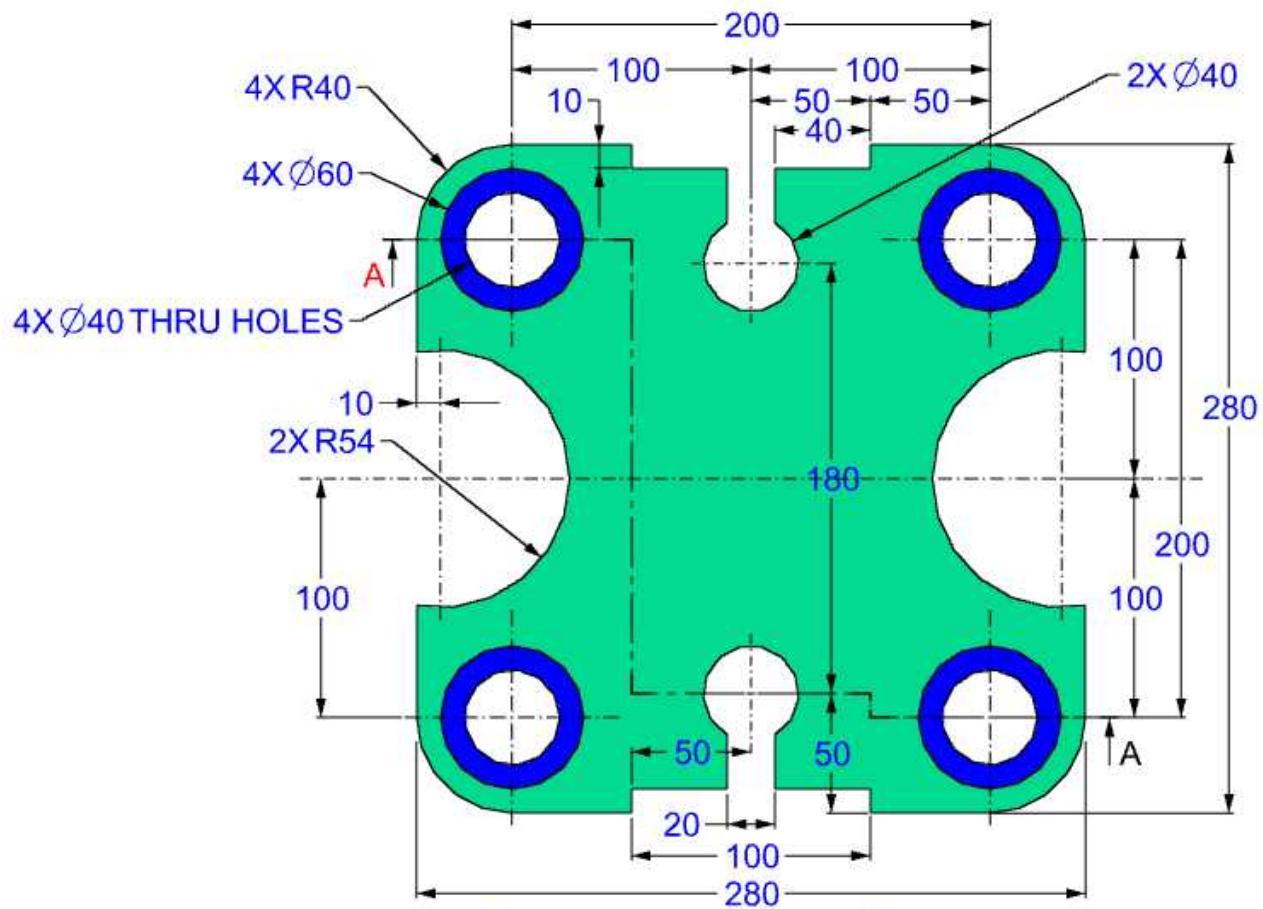
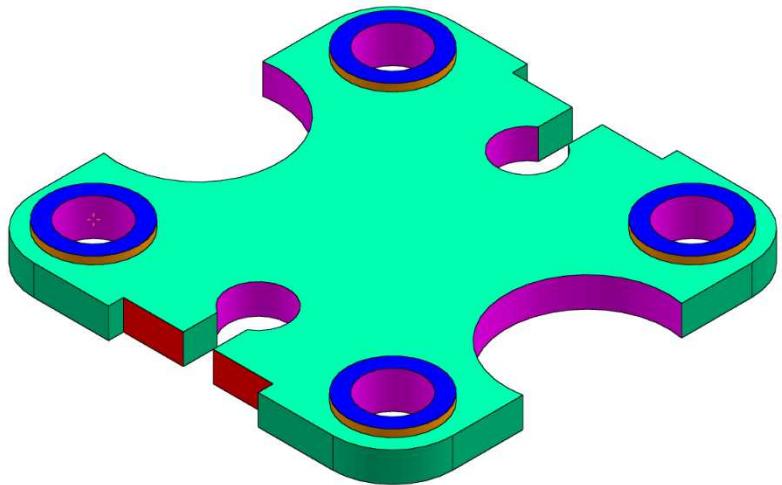
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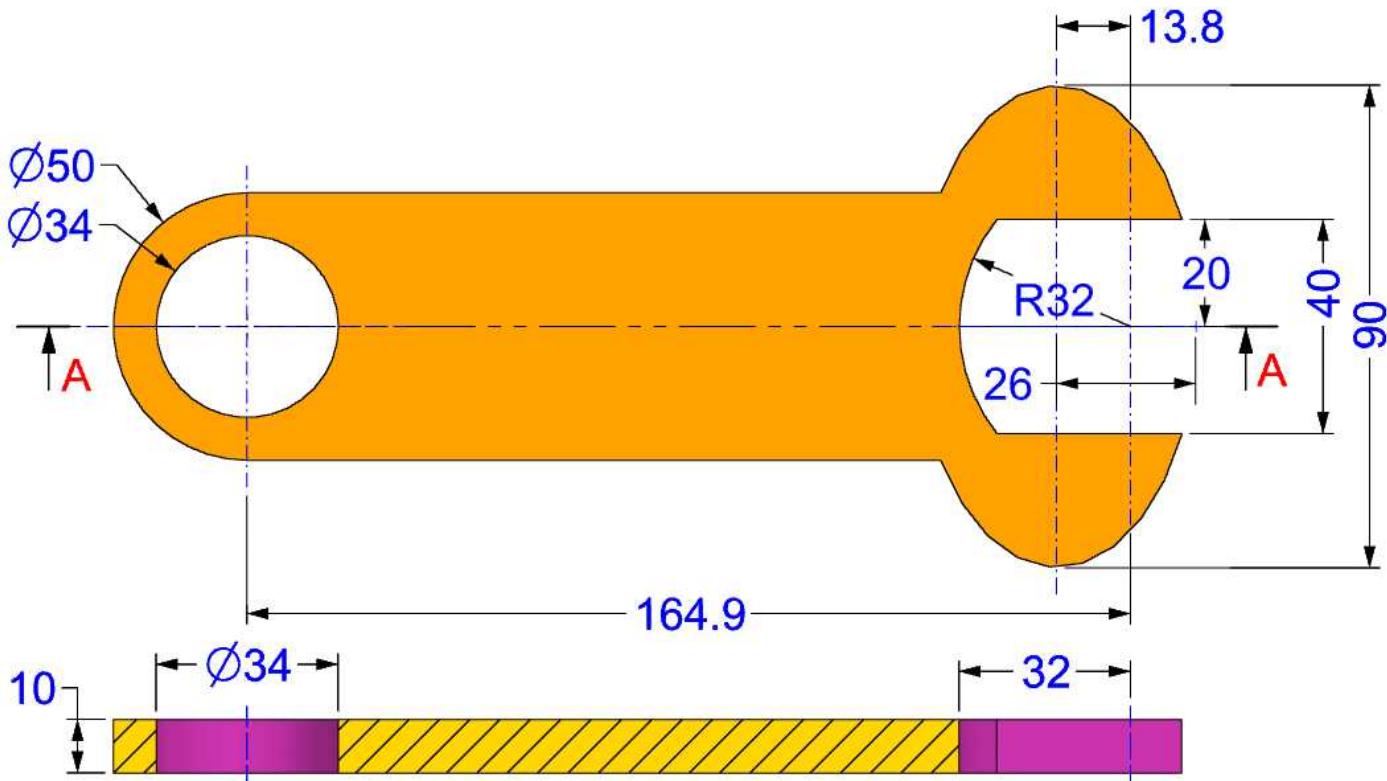
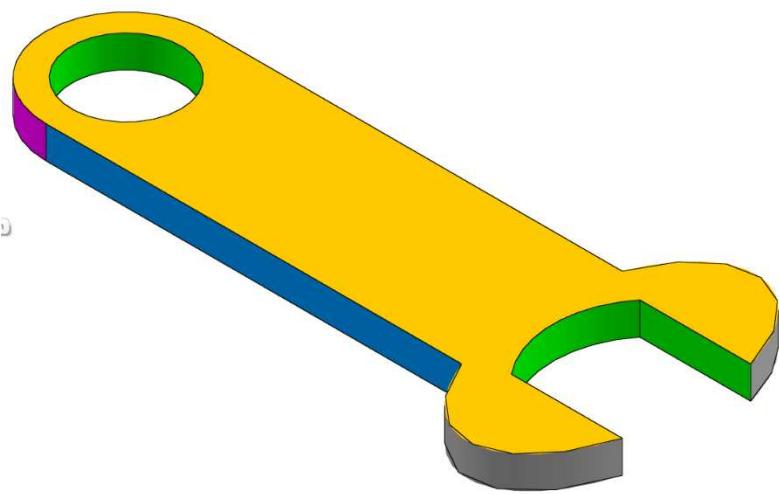
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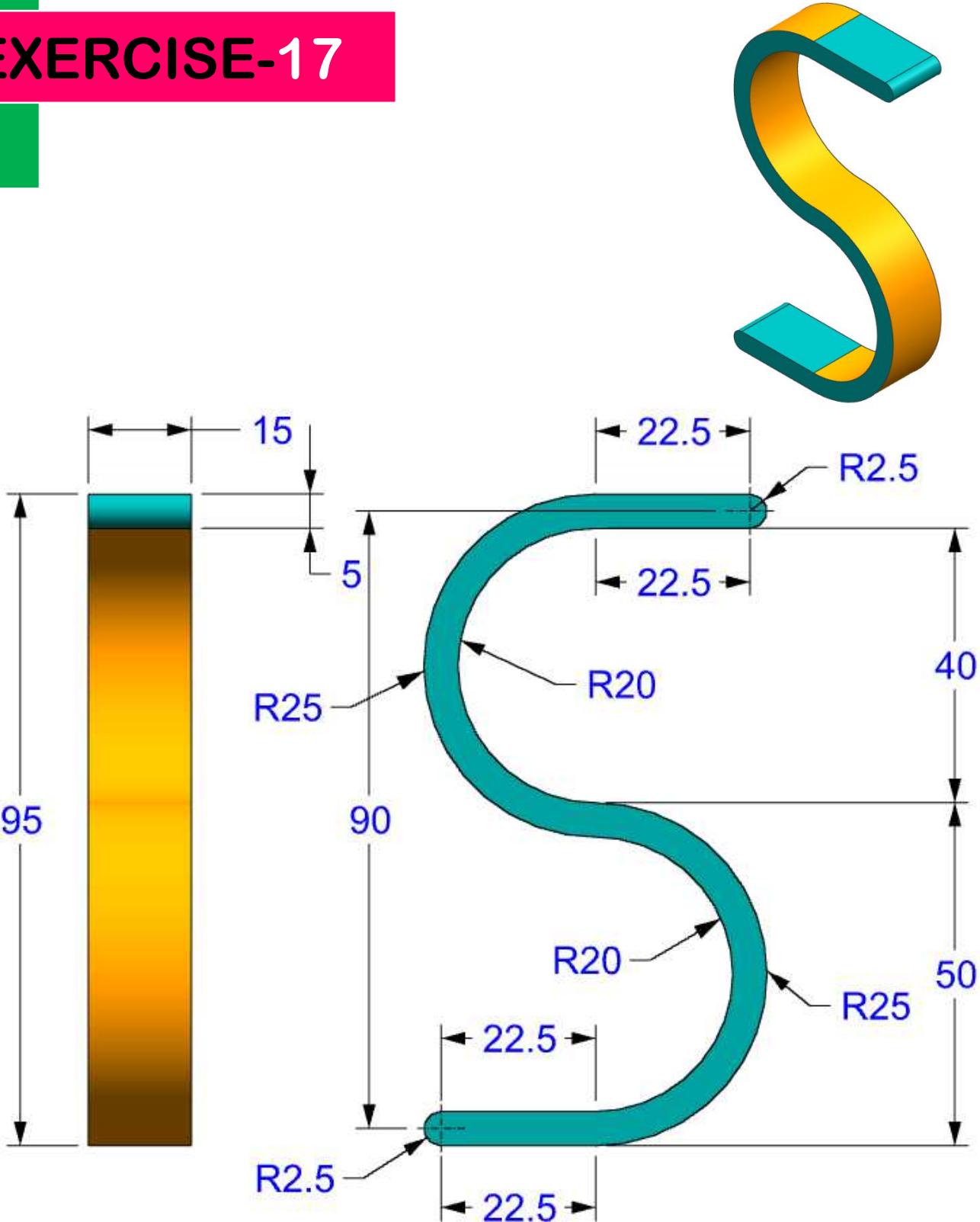


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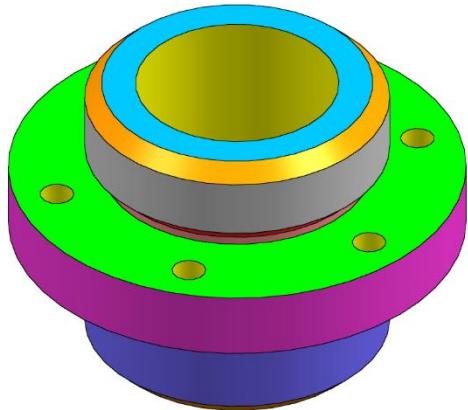
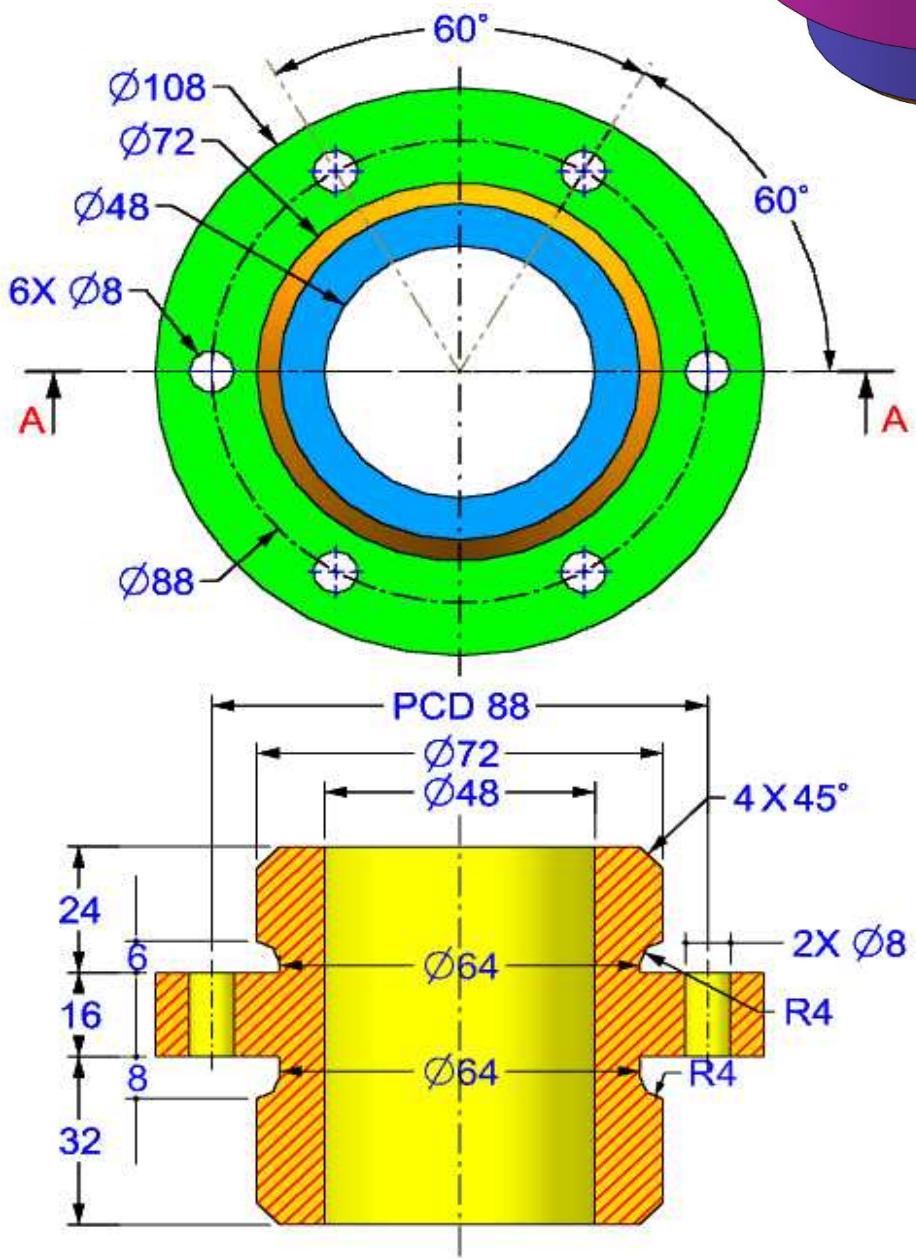


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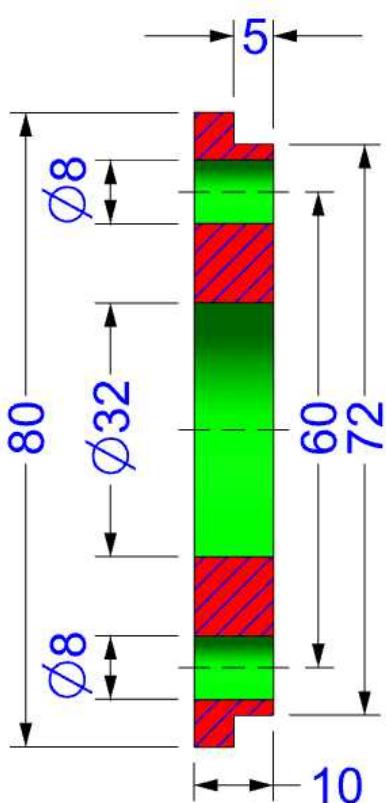
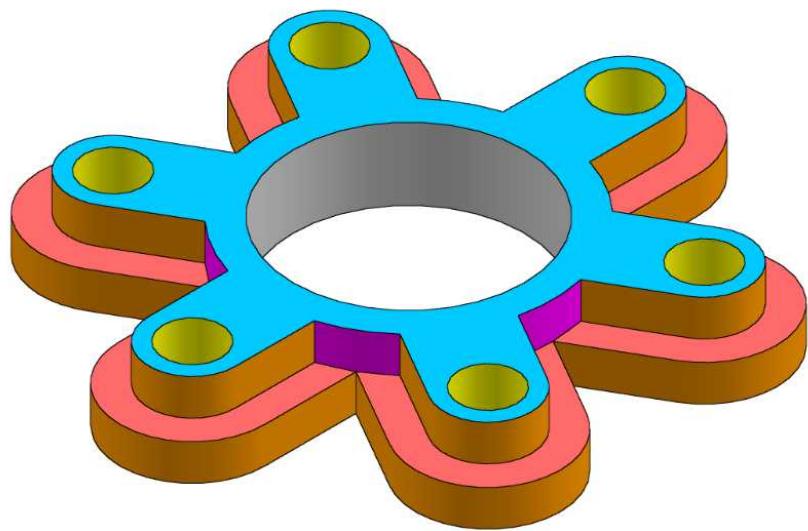
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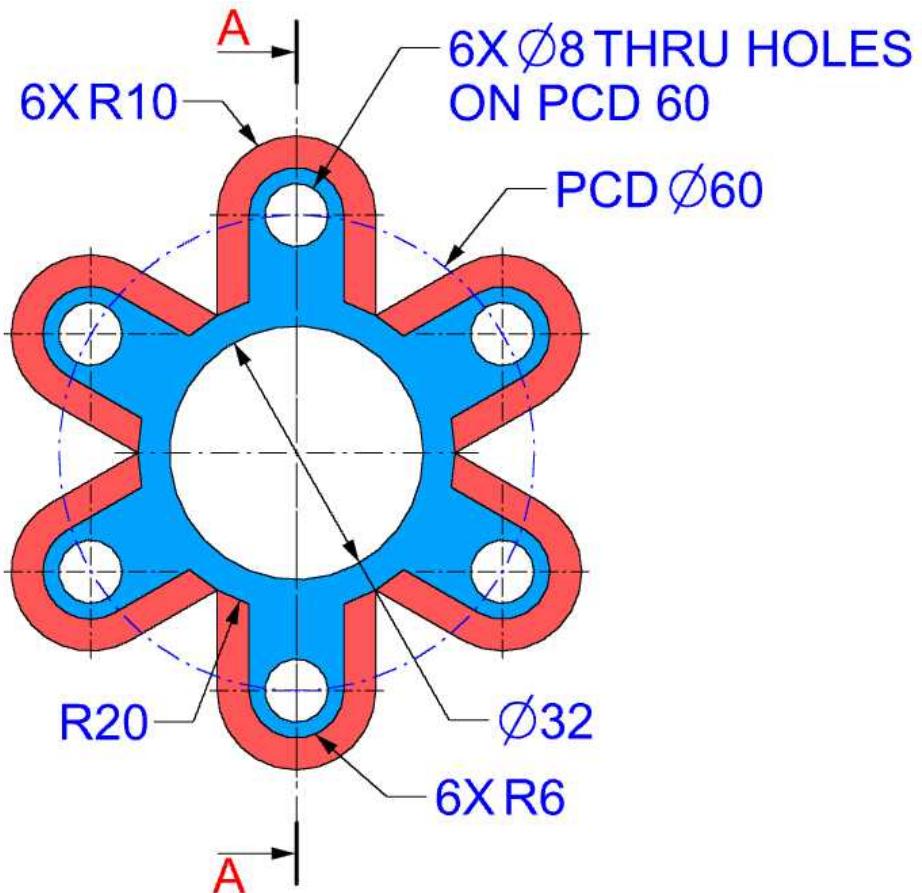
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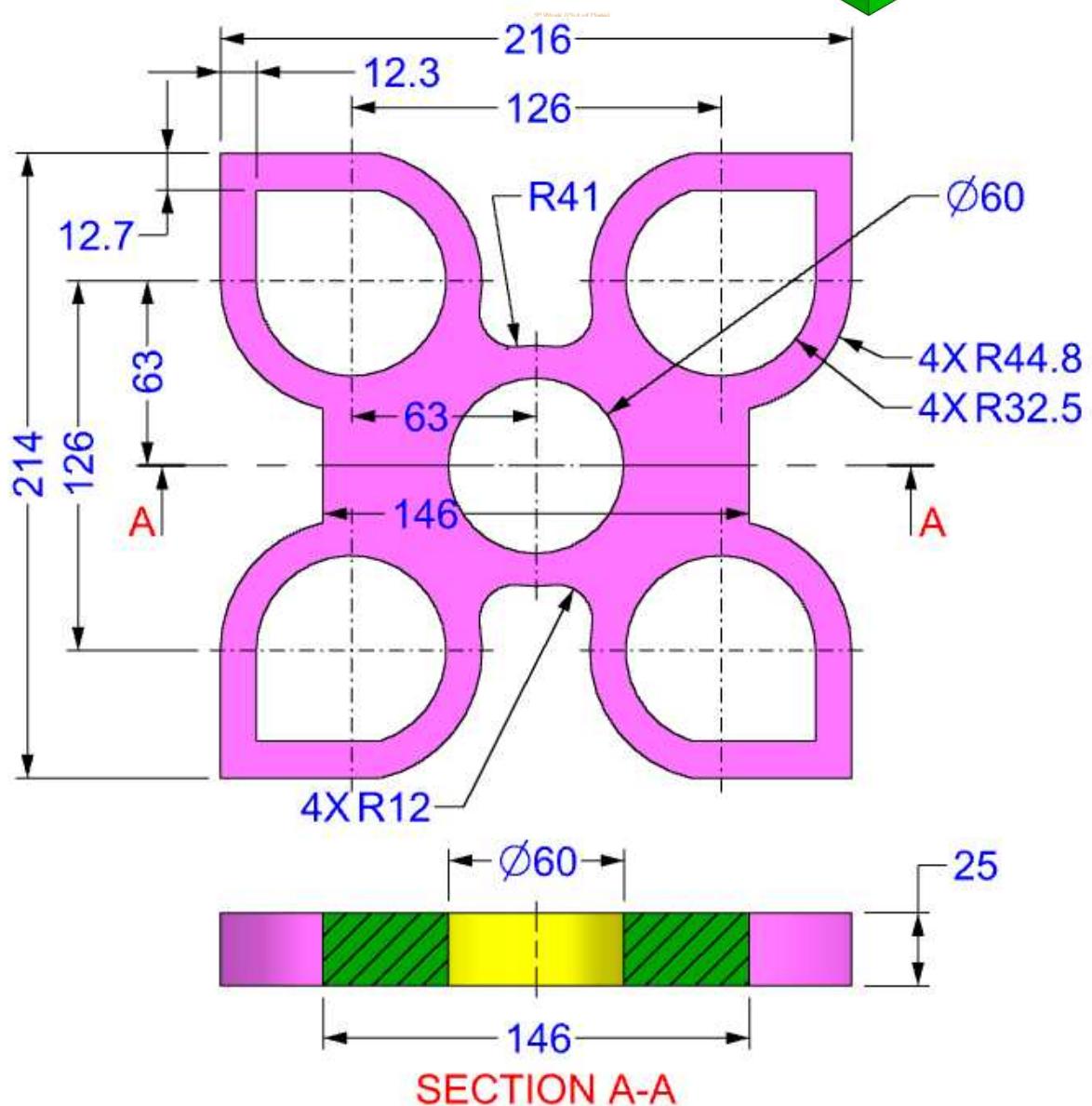
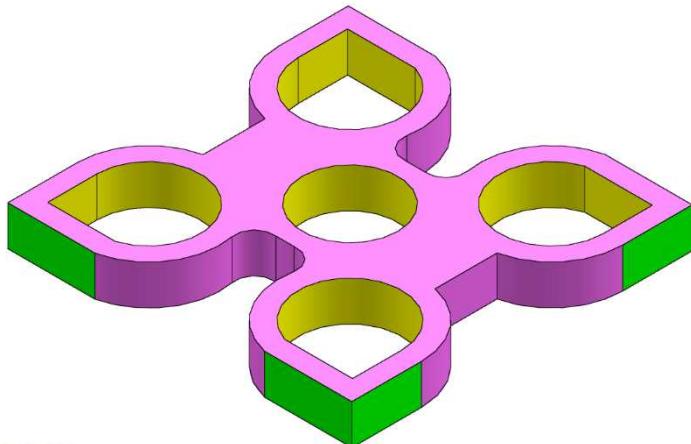
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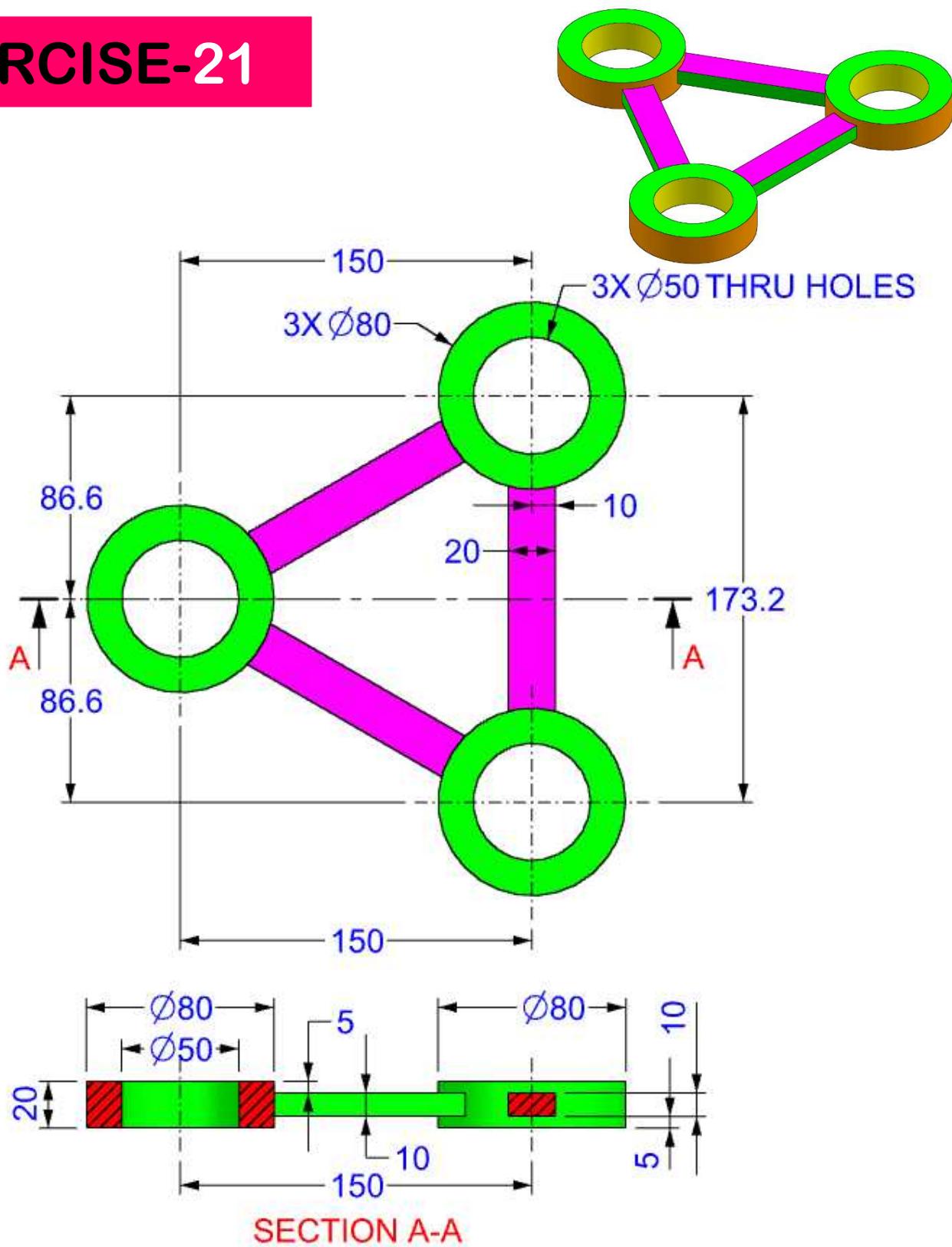
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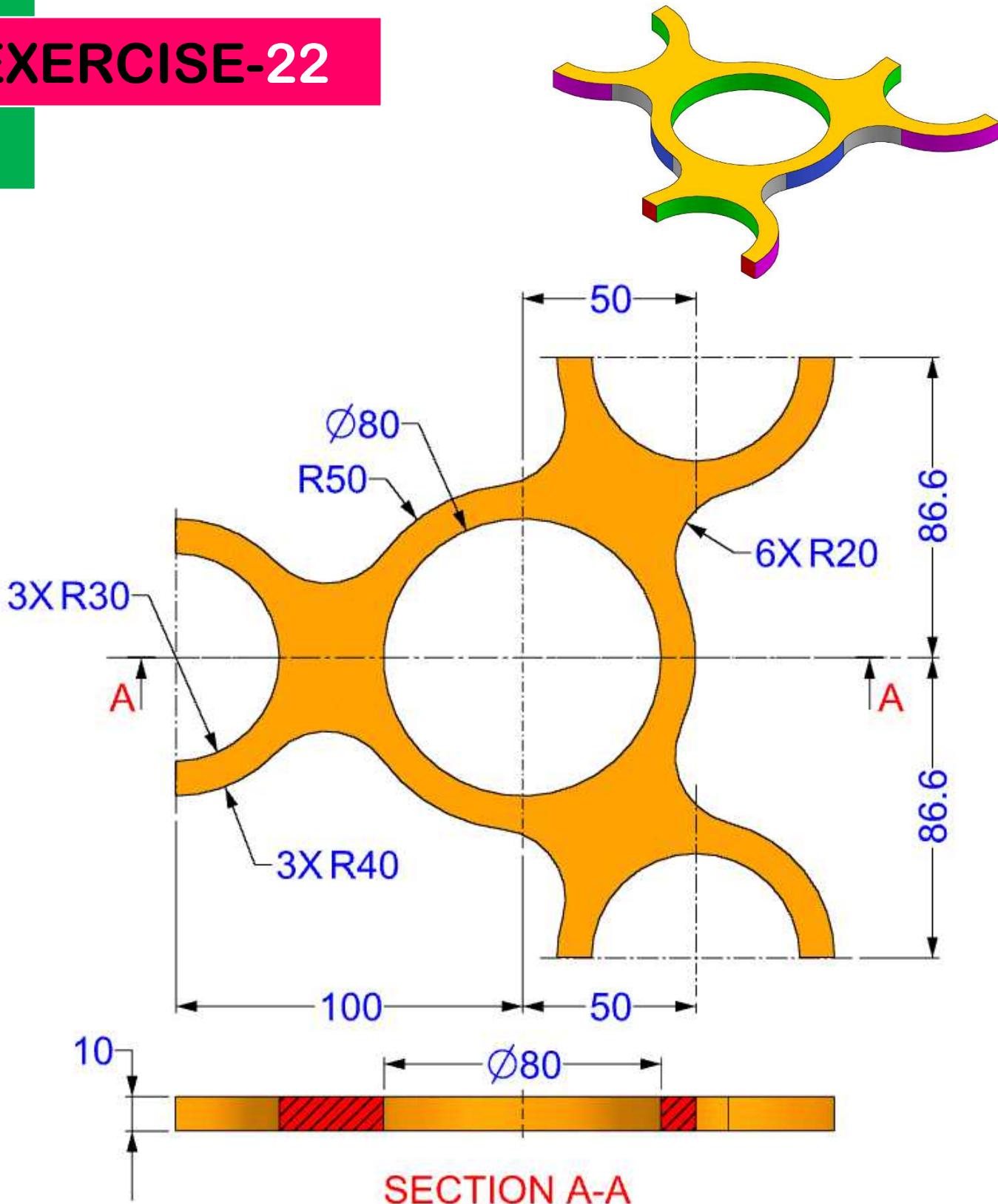
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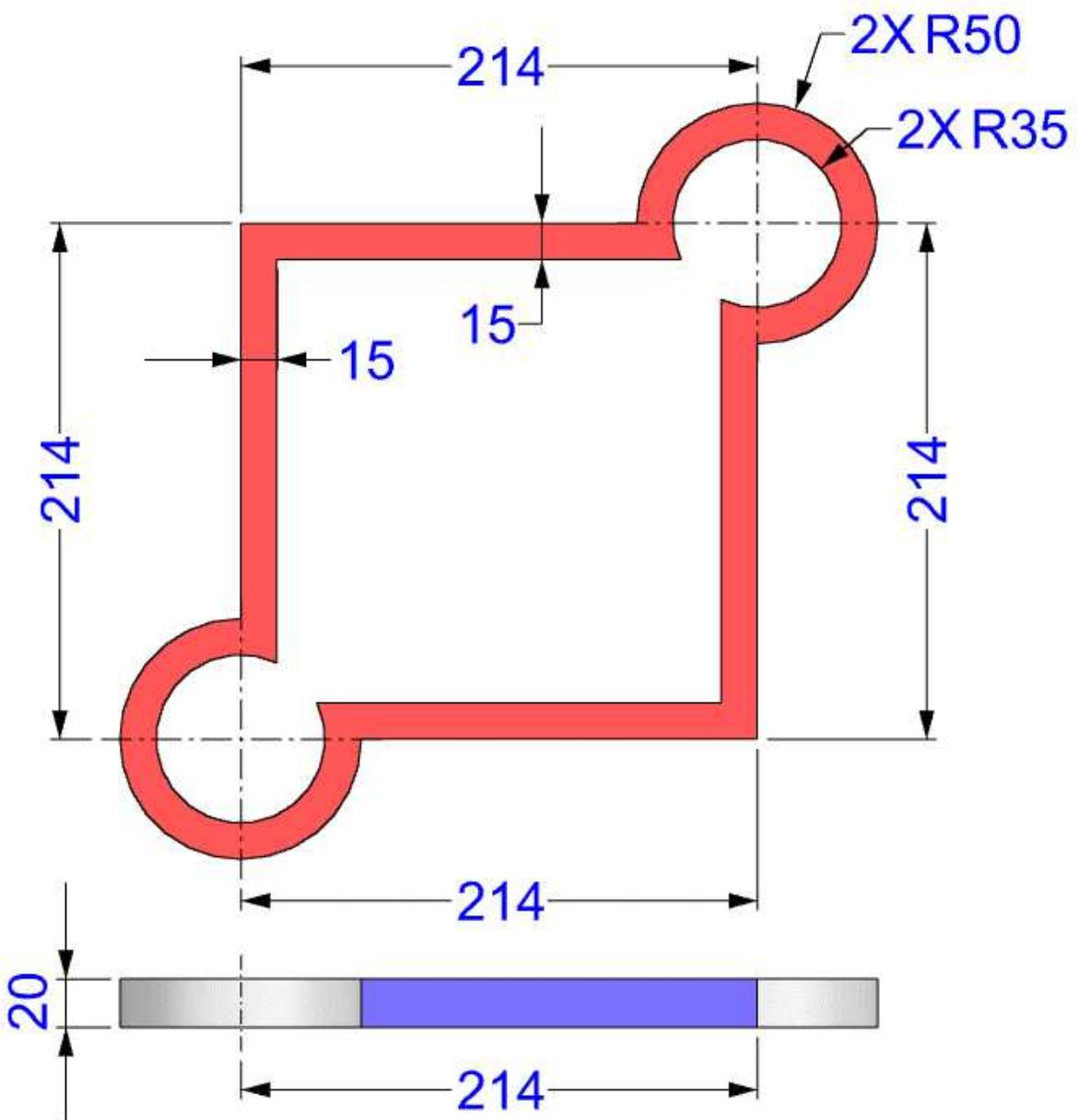
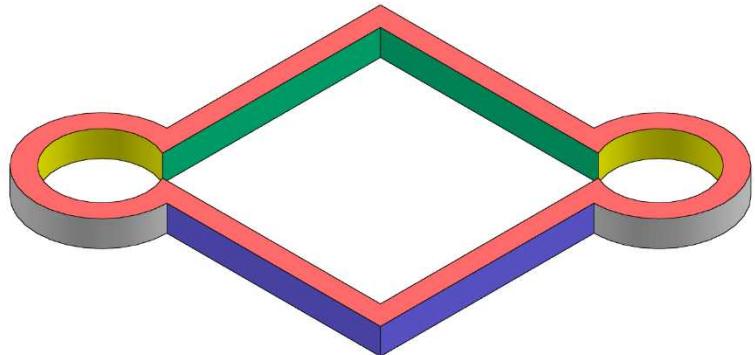
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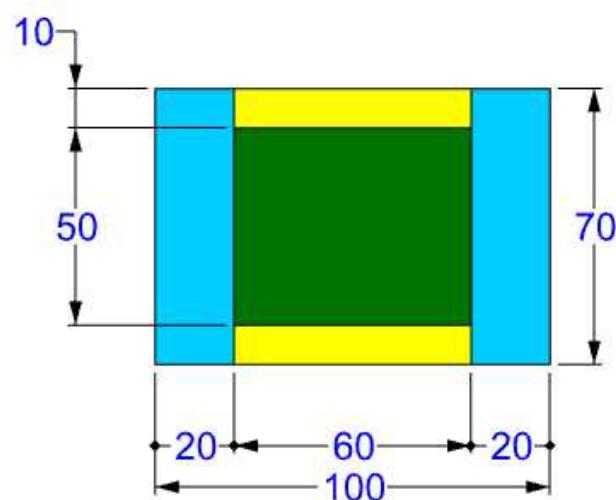
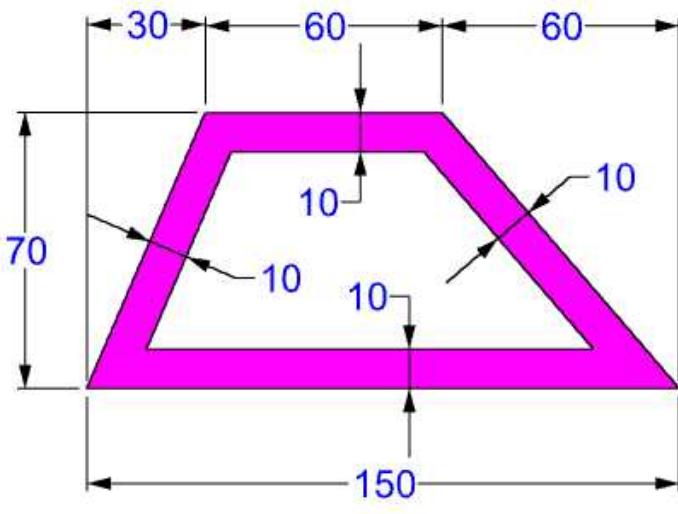
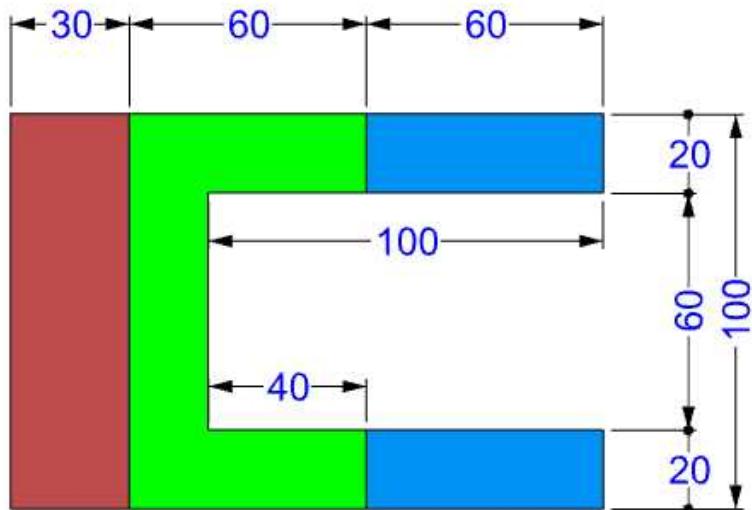
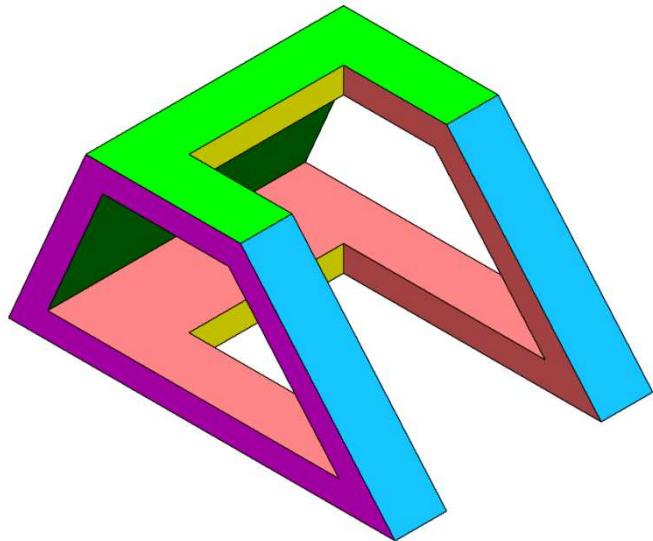
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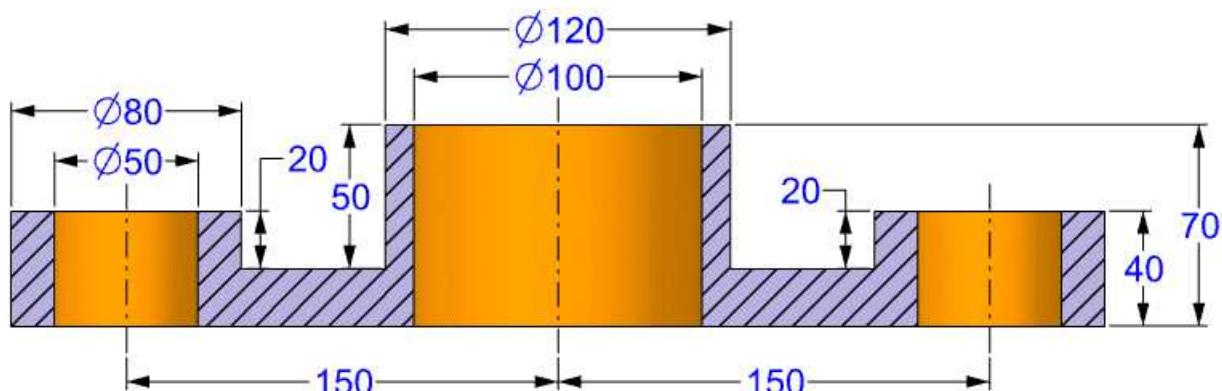
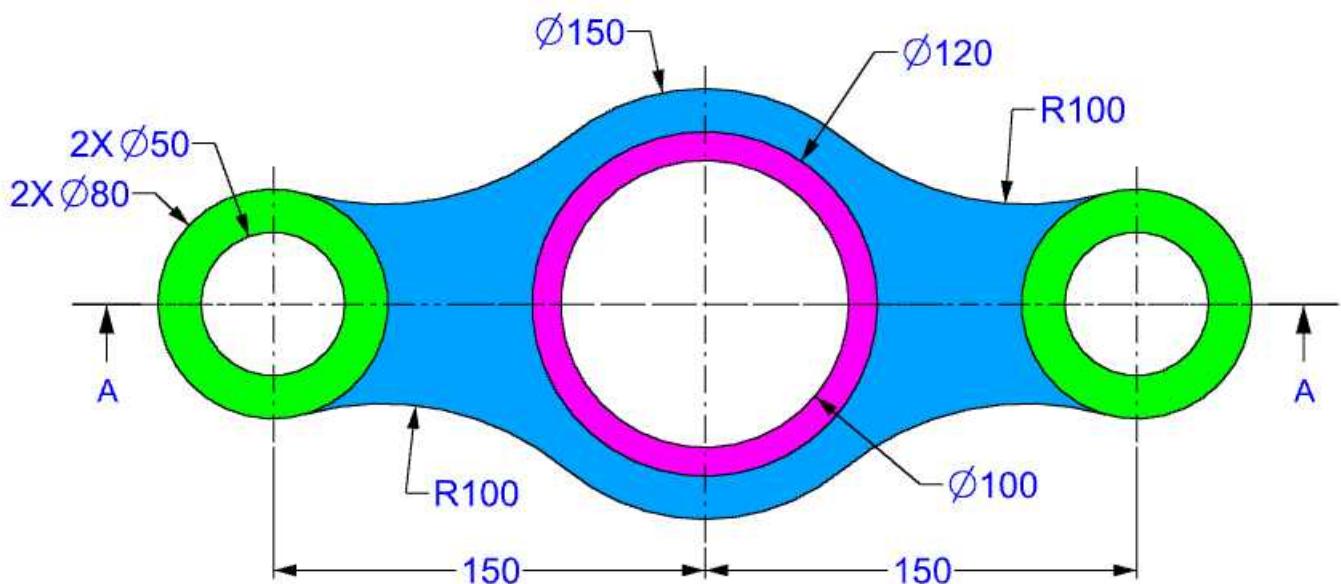
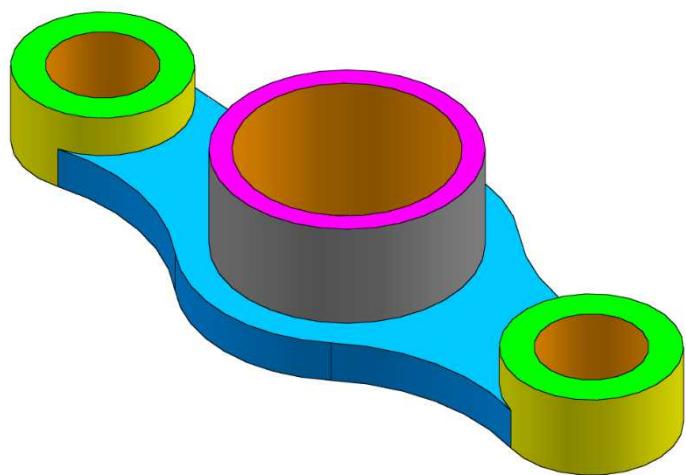
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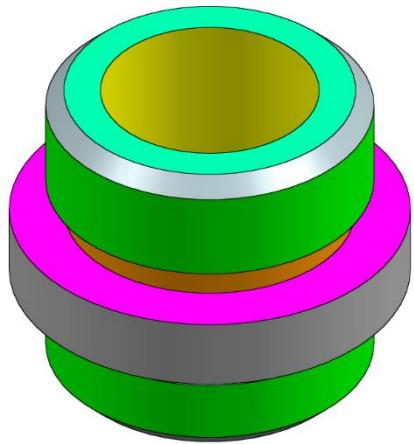
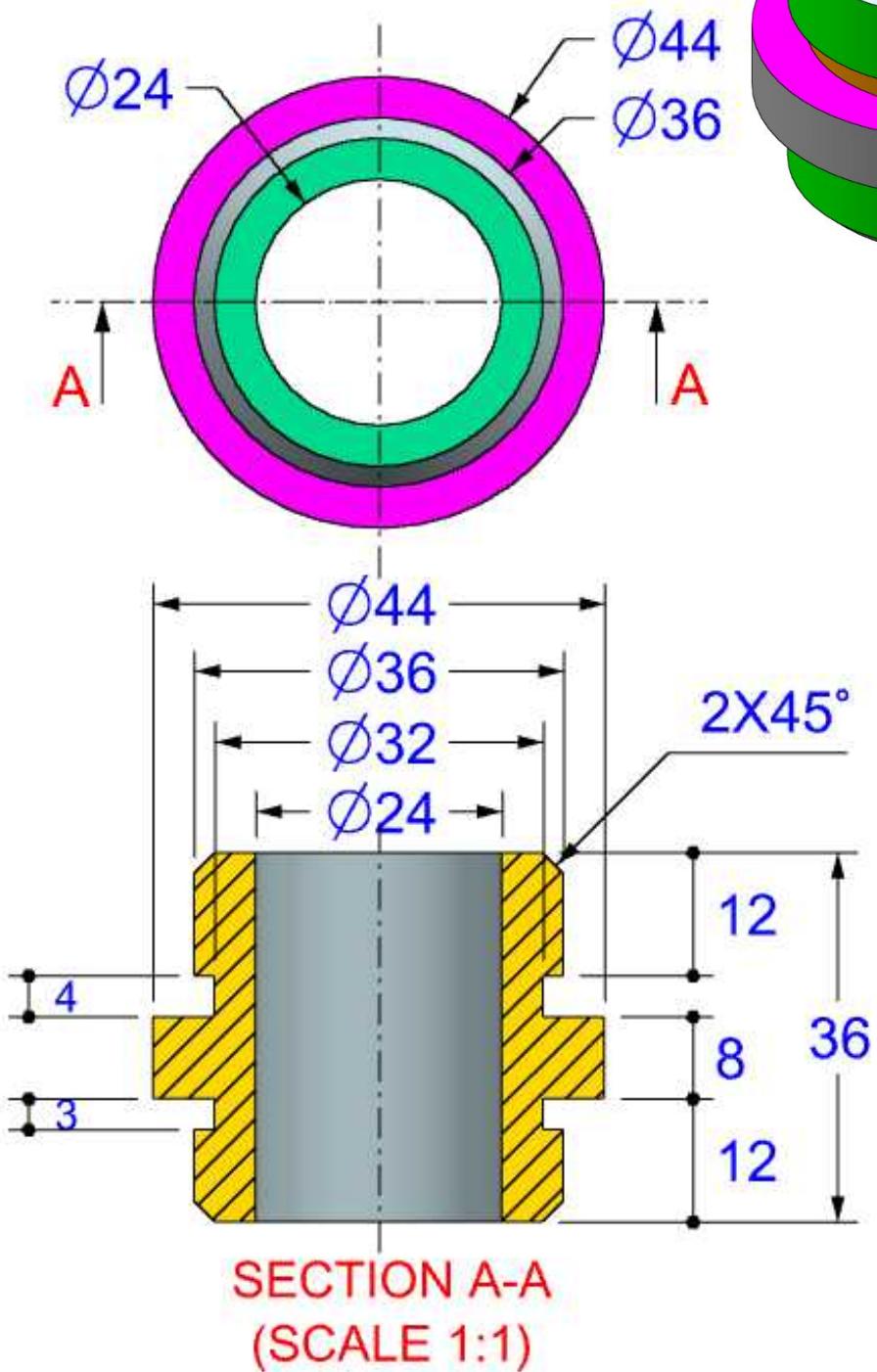


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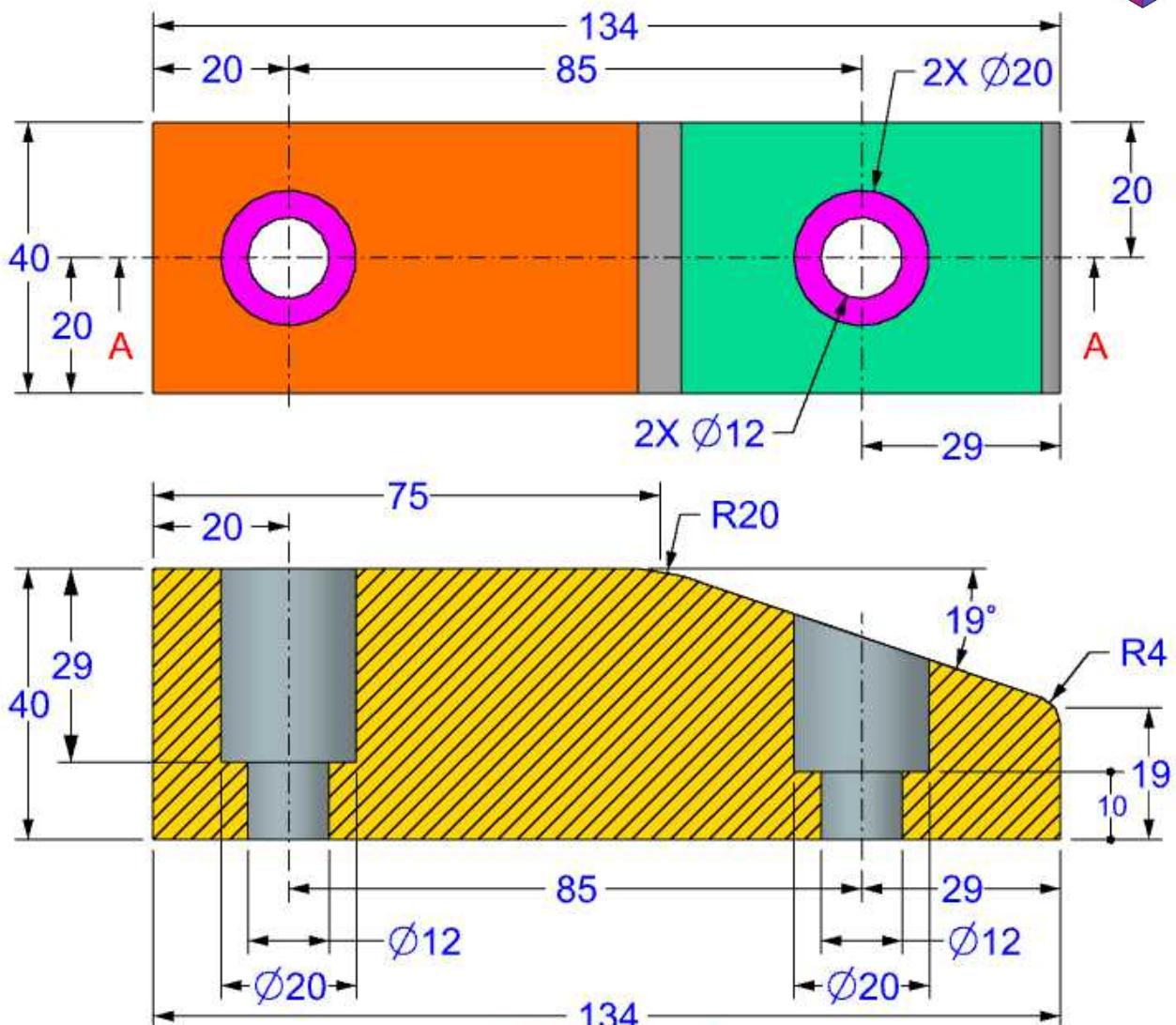
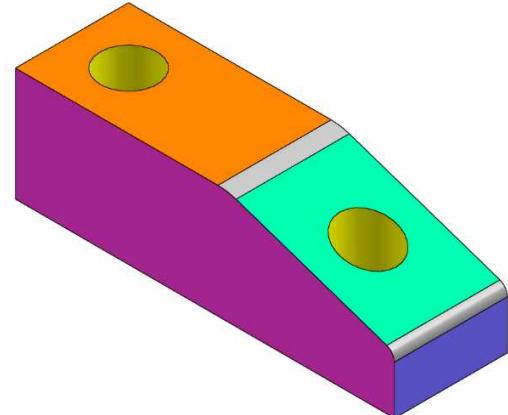


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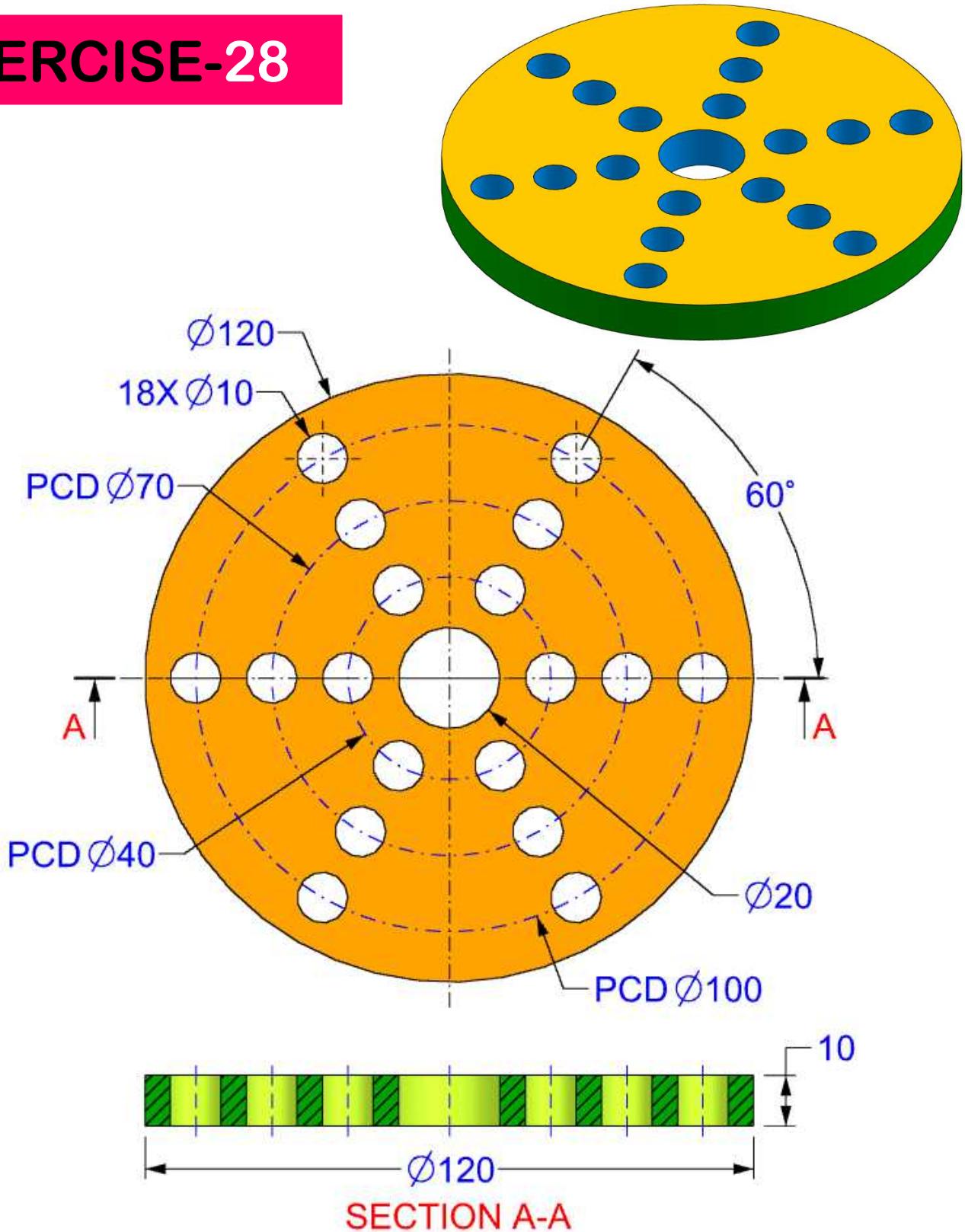


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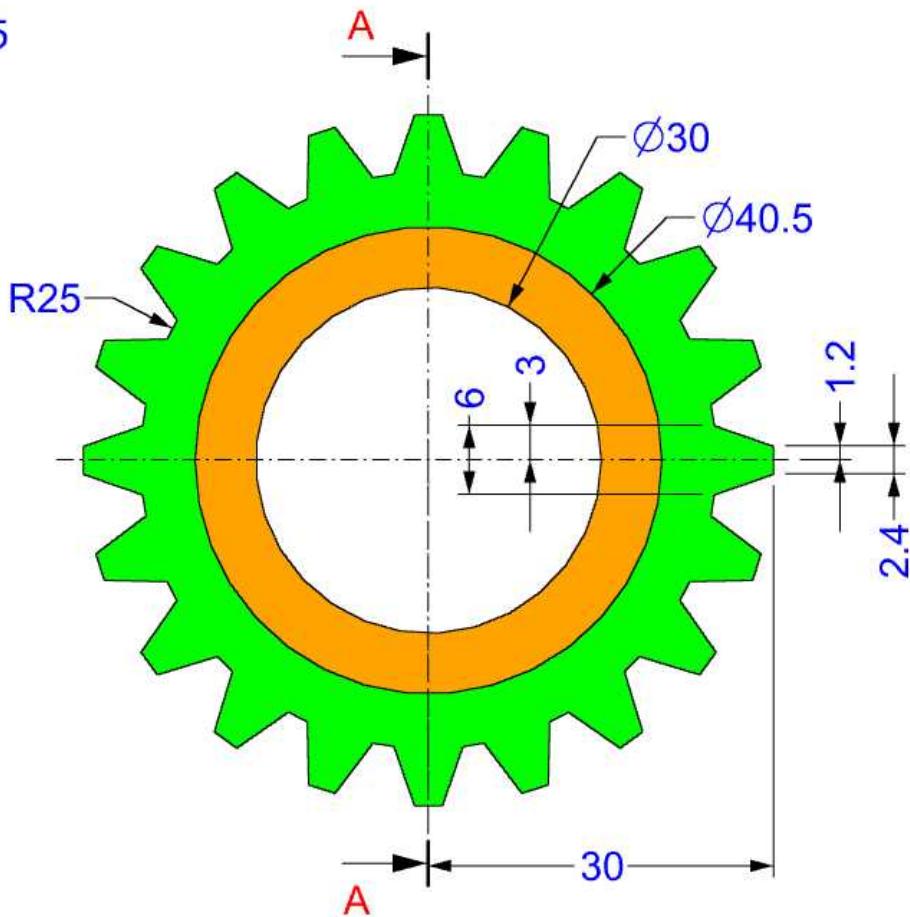
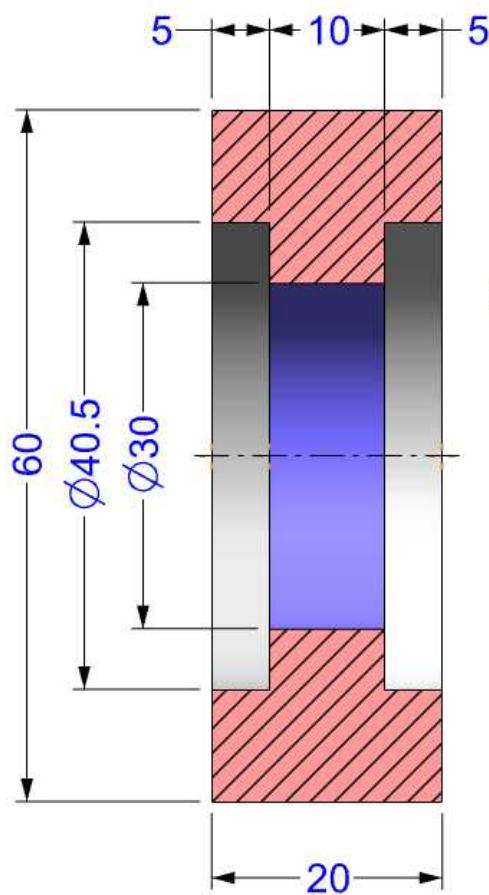
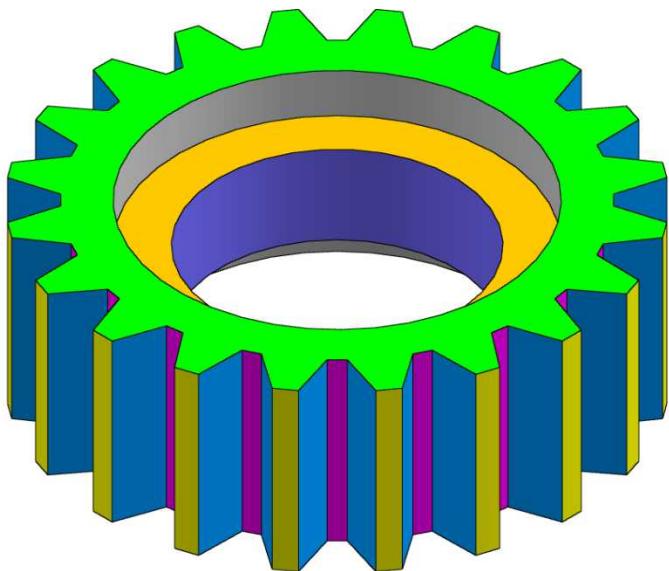


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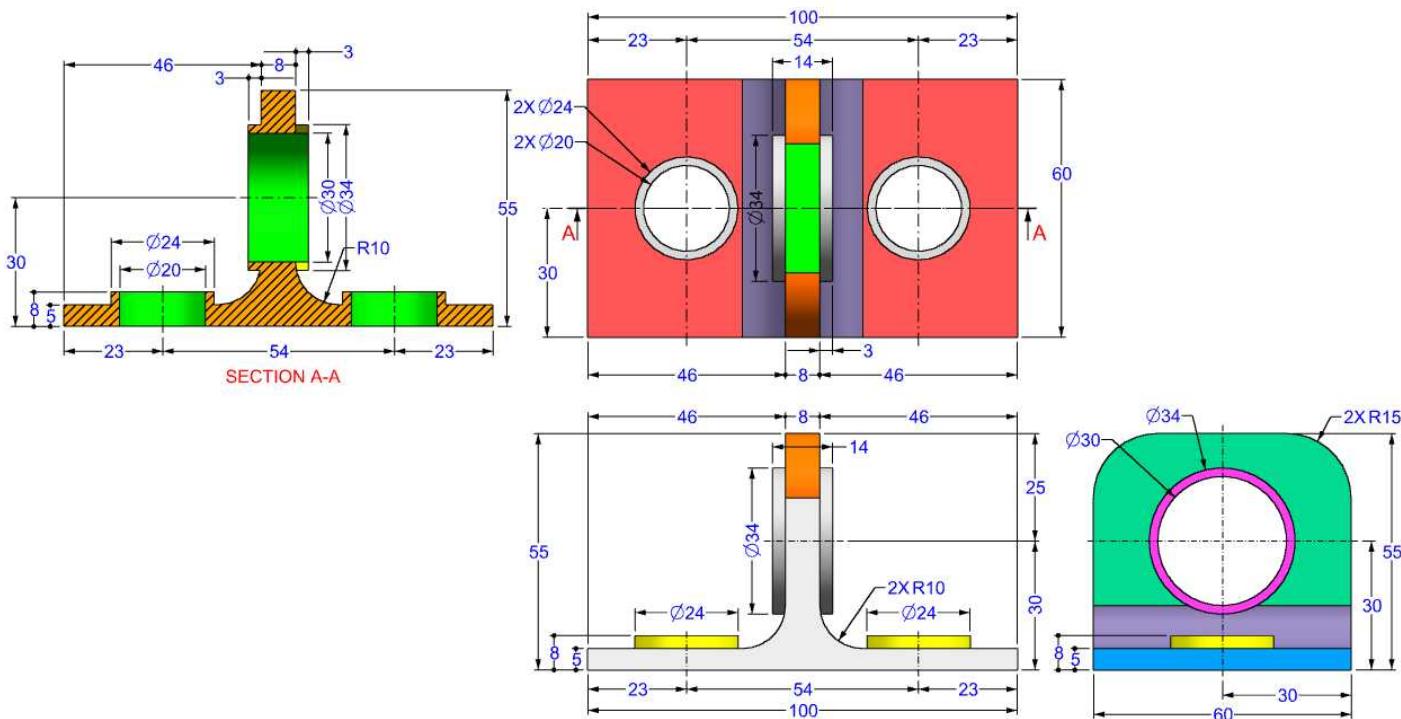
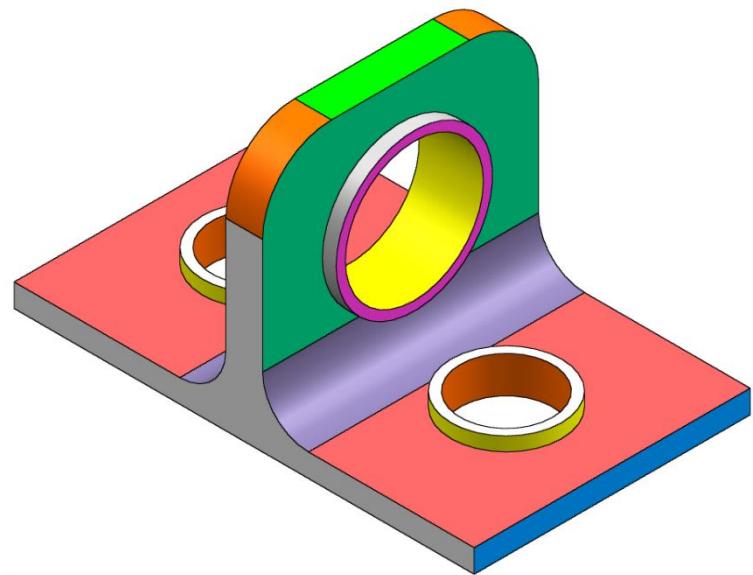


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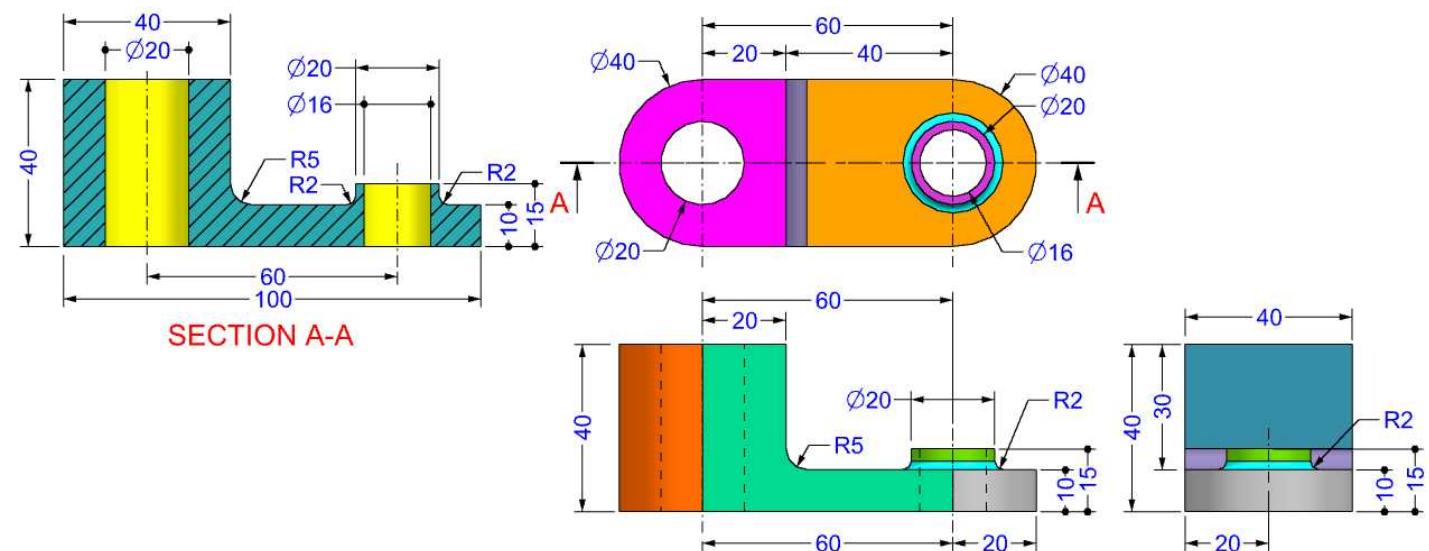
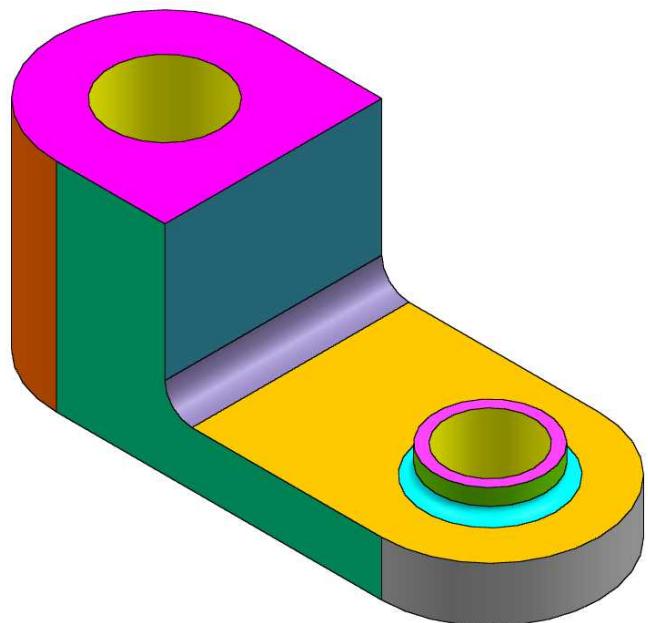


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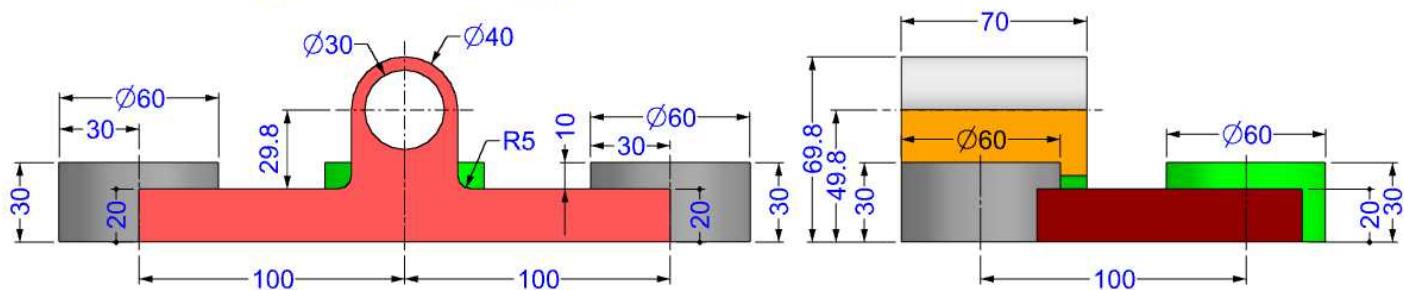
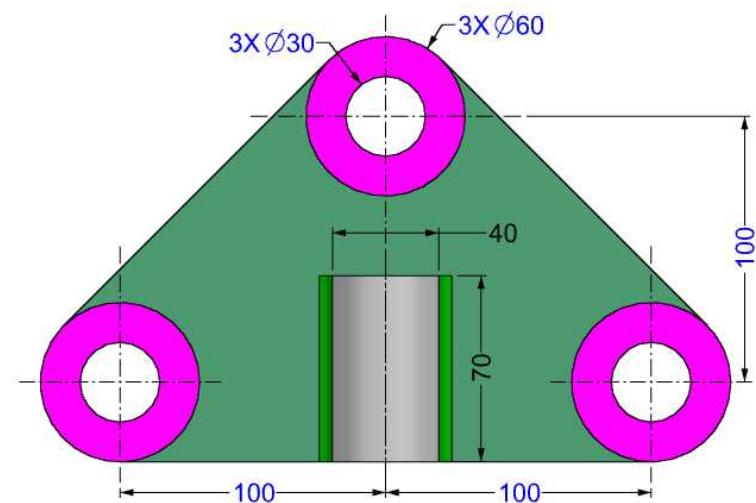
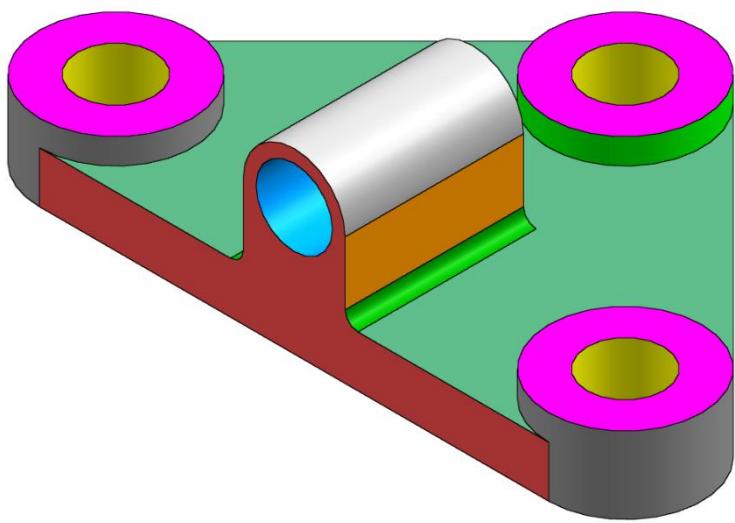
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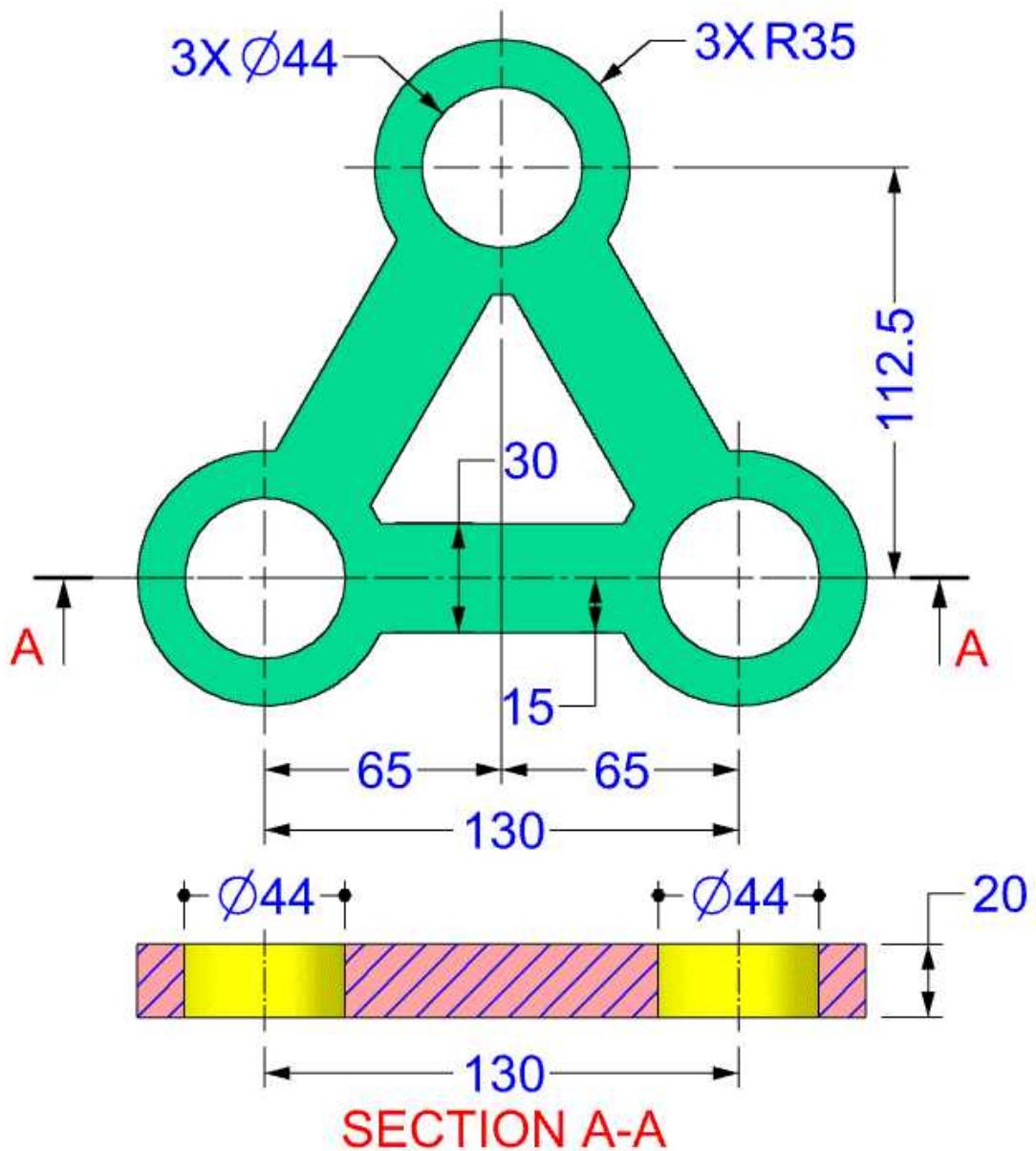
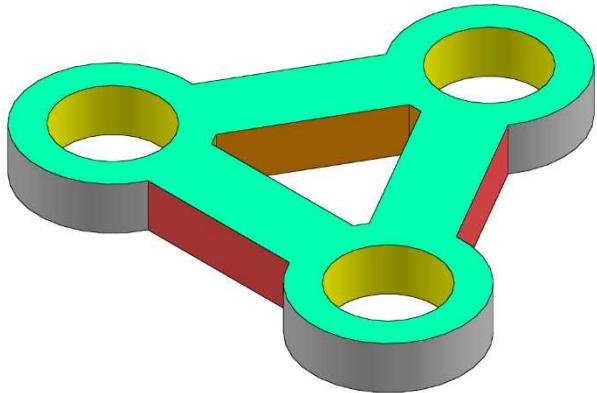
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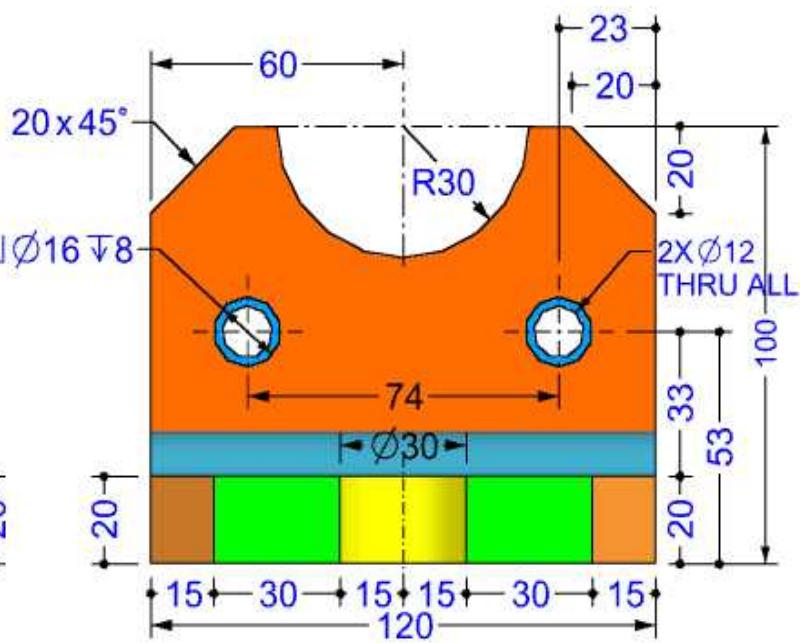
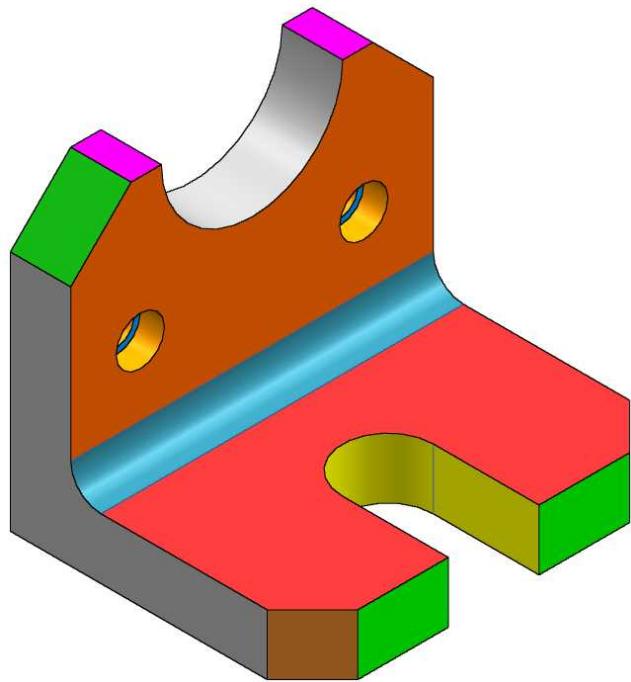
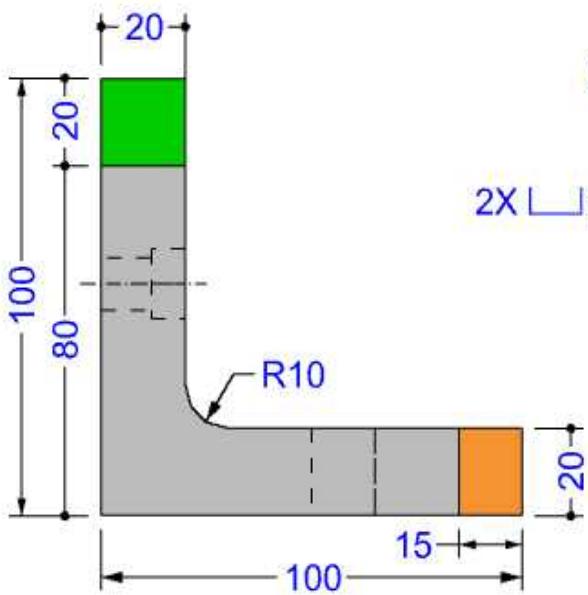
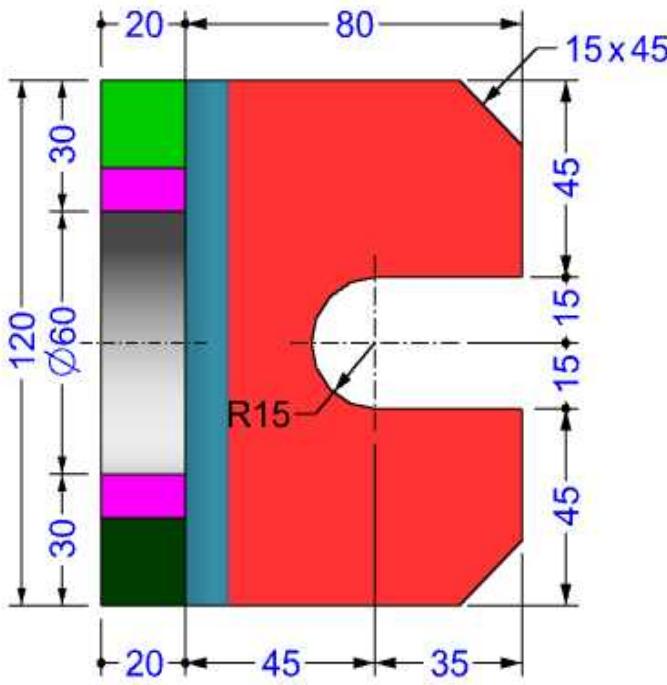
EXERCISE-32



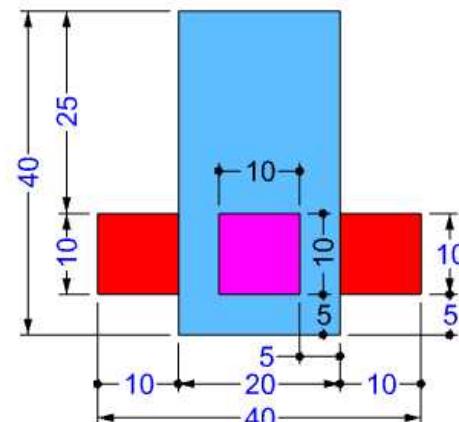
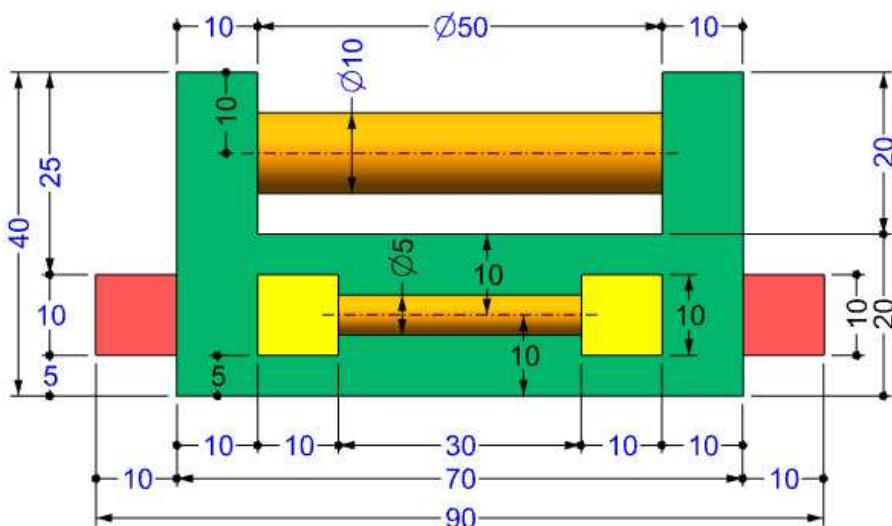
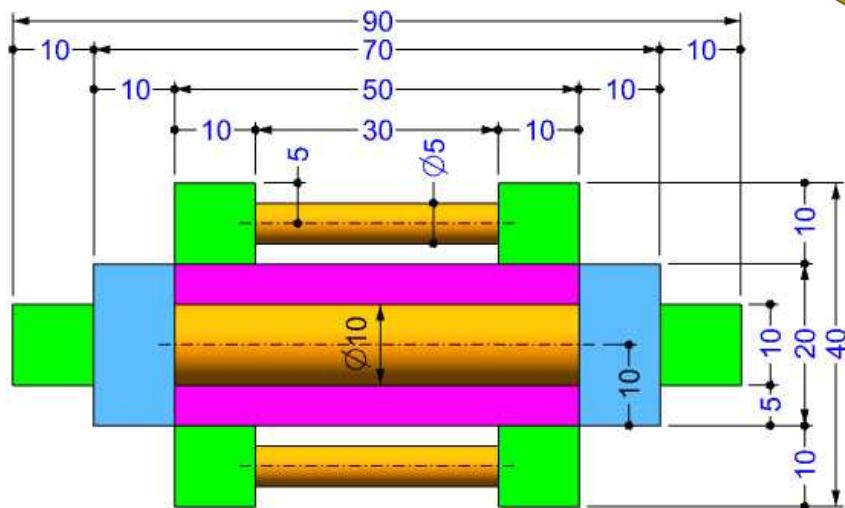
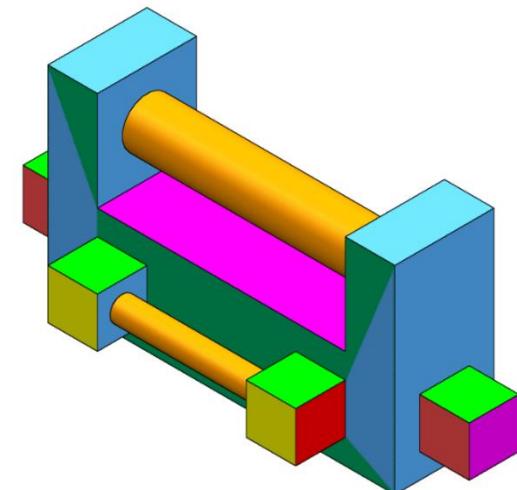
EXERCISE-33



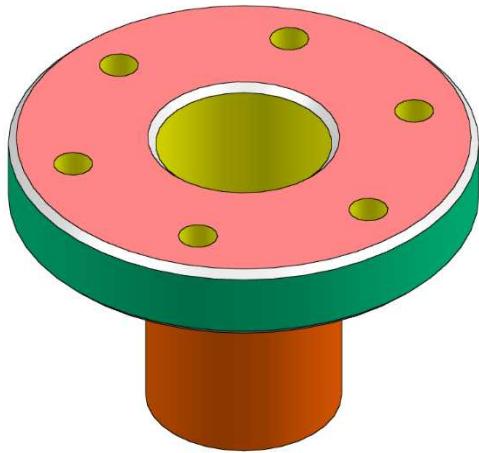
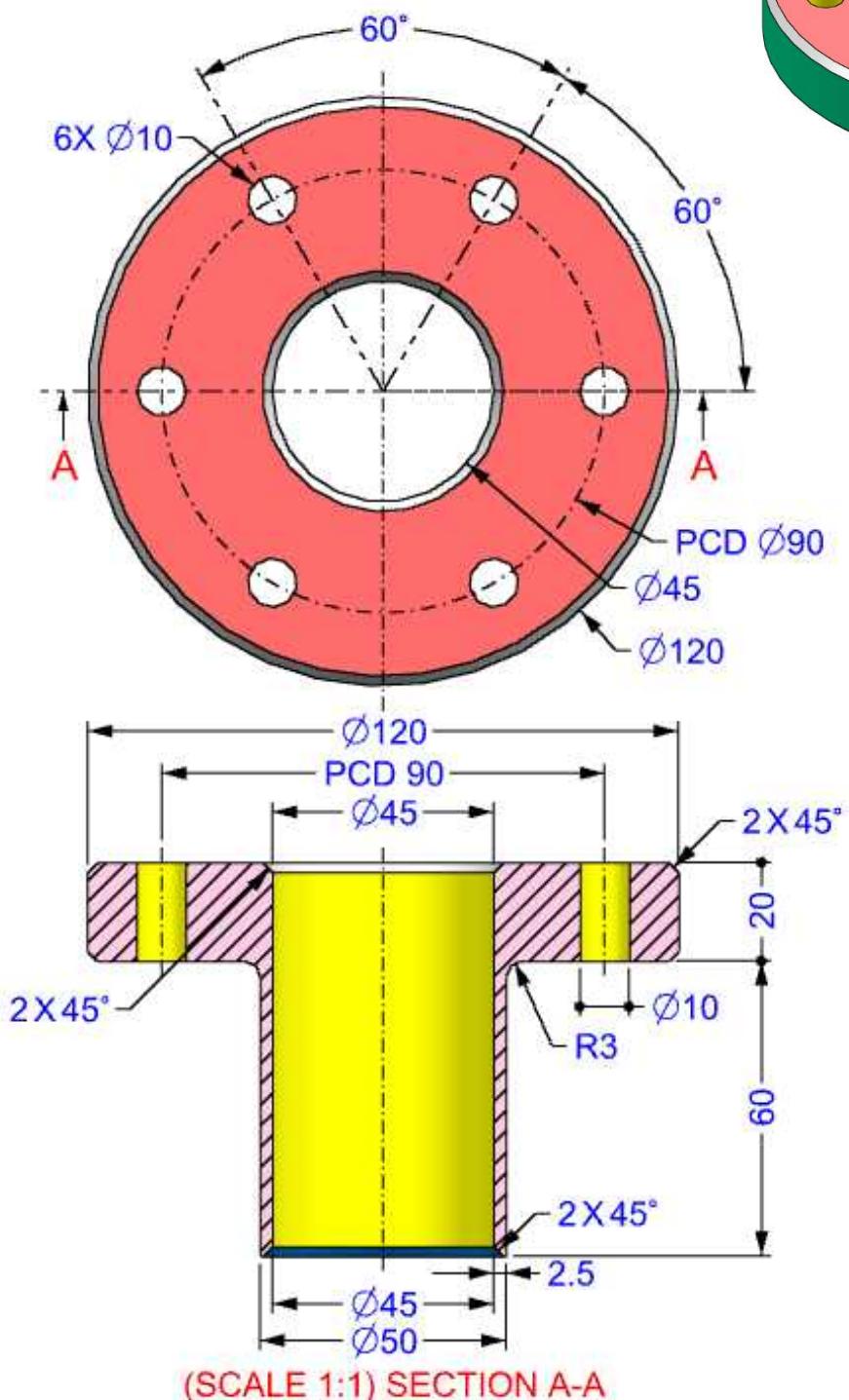
EXERCISE-34



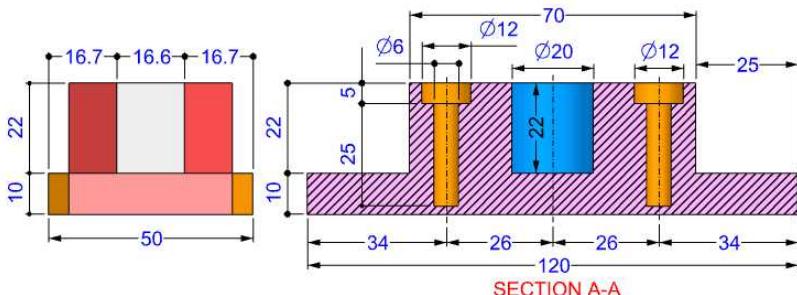
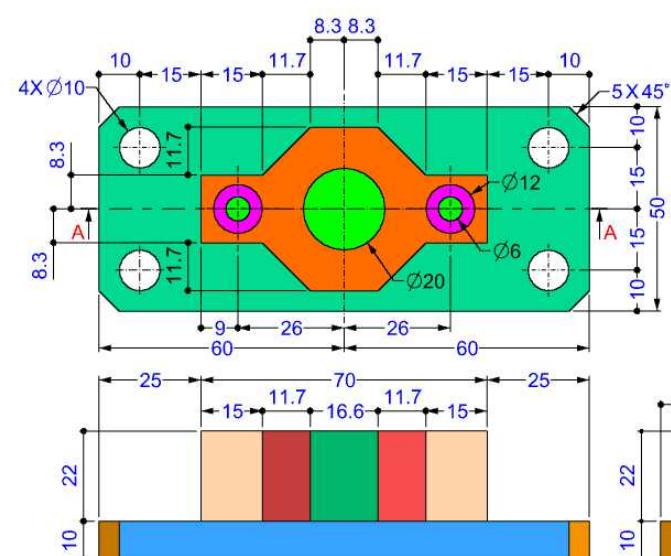
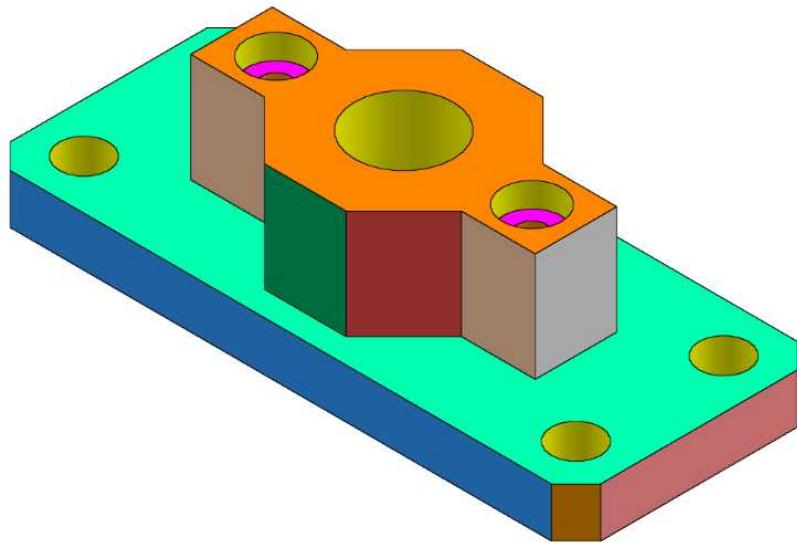
EXERCISE-35



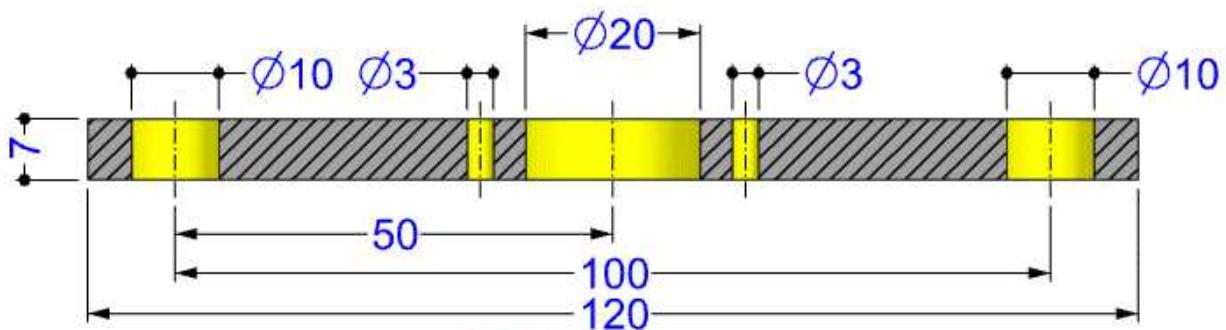
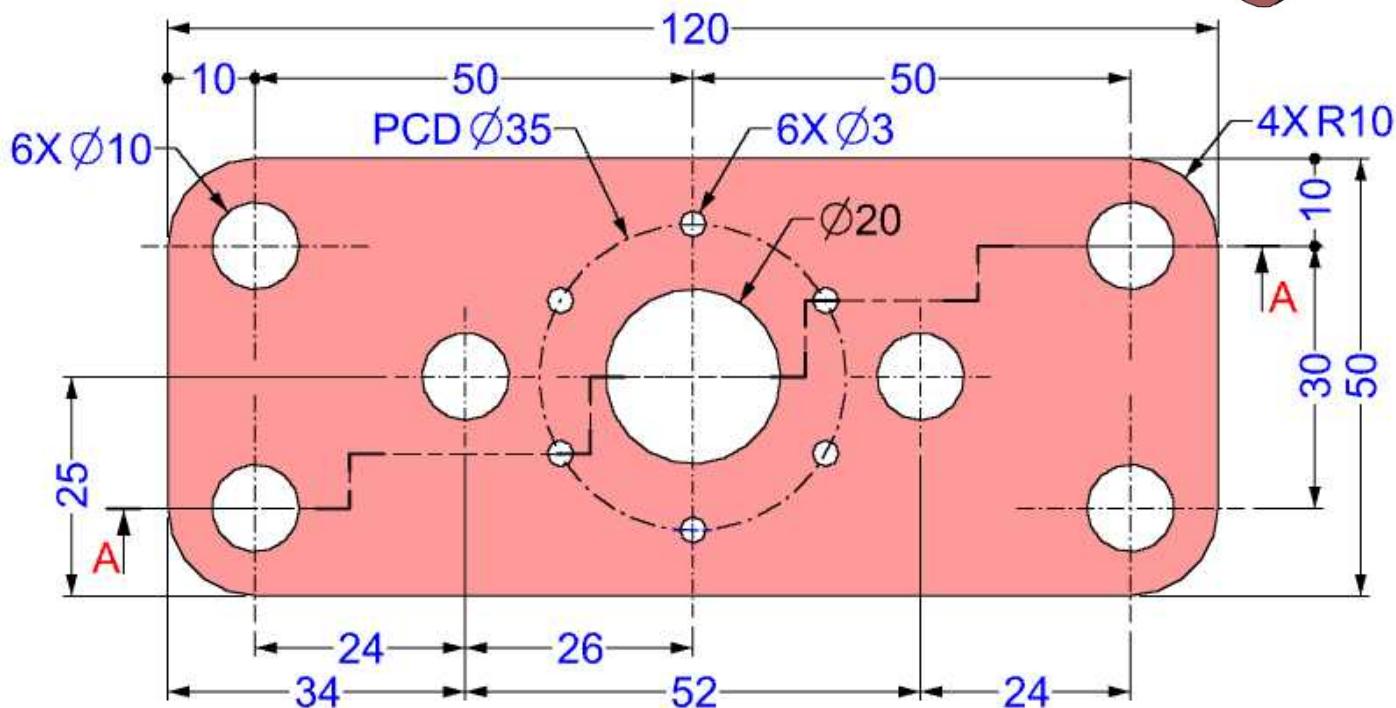
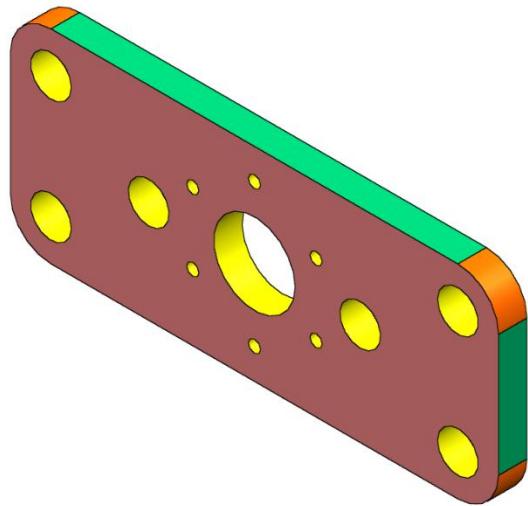
EXERCISE-36



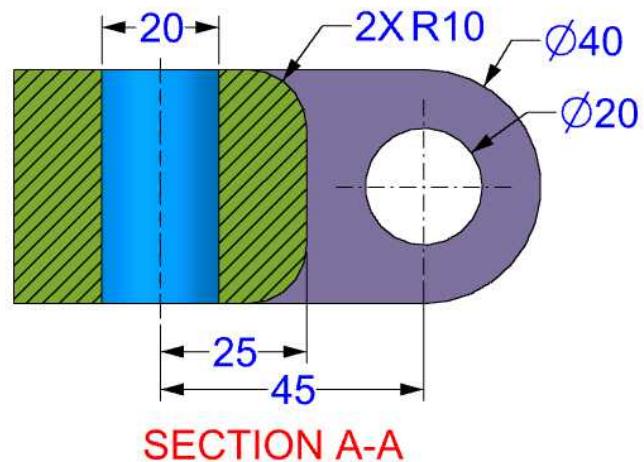
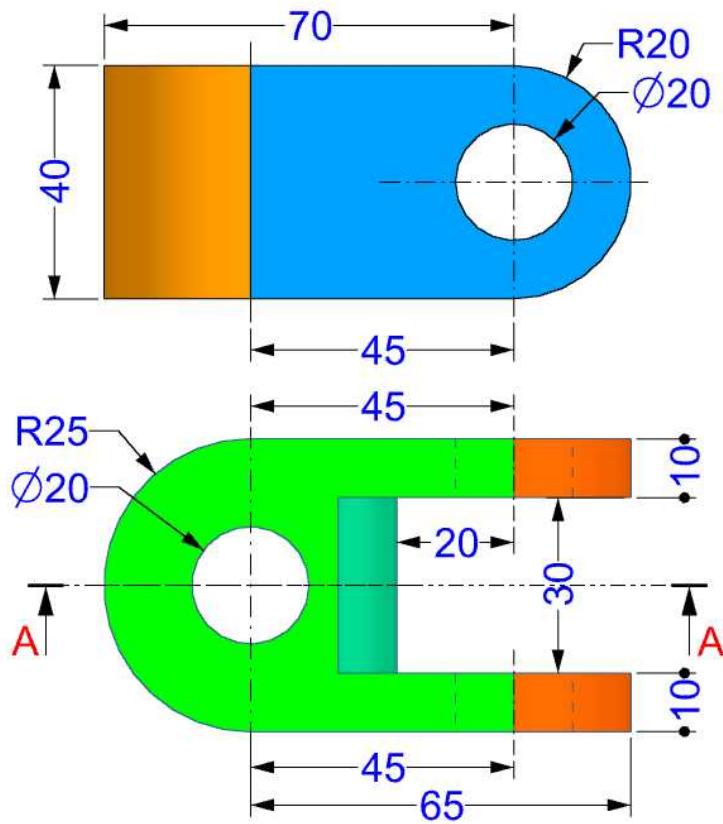
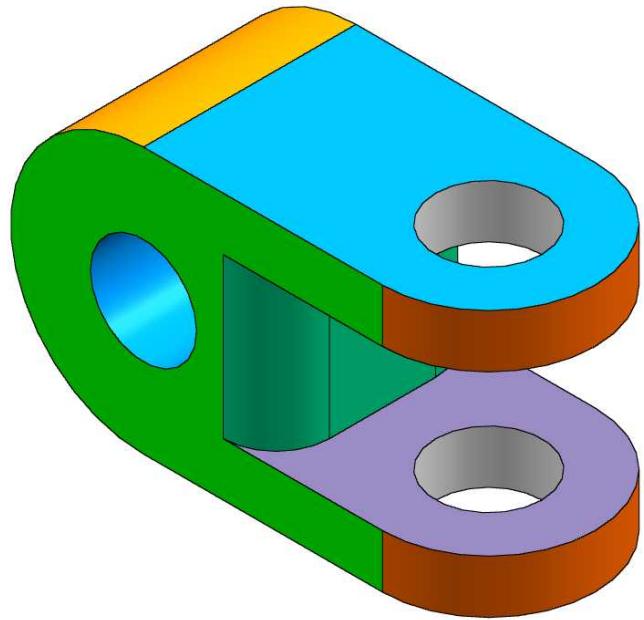
EXERCISE-37



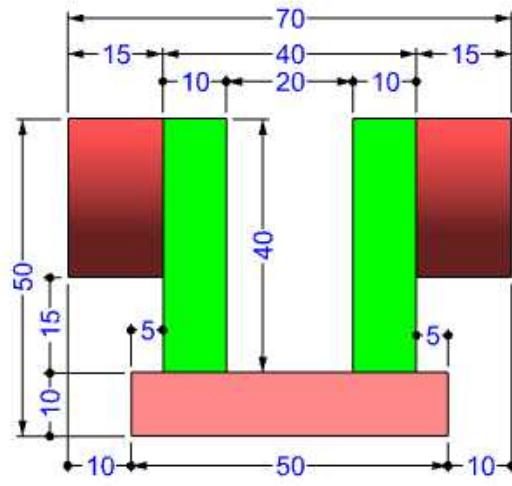
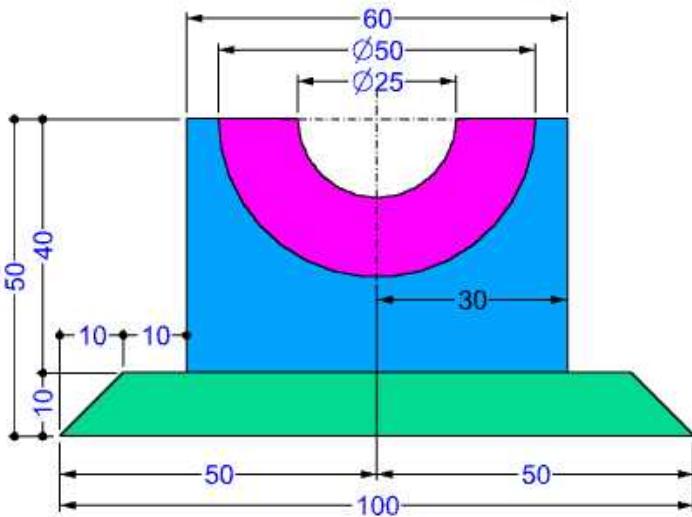
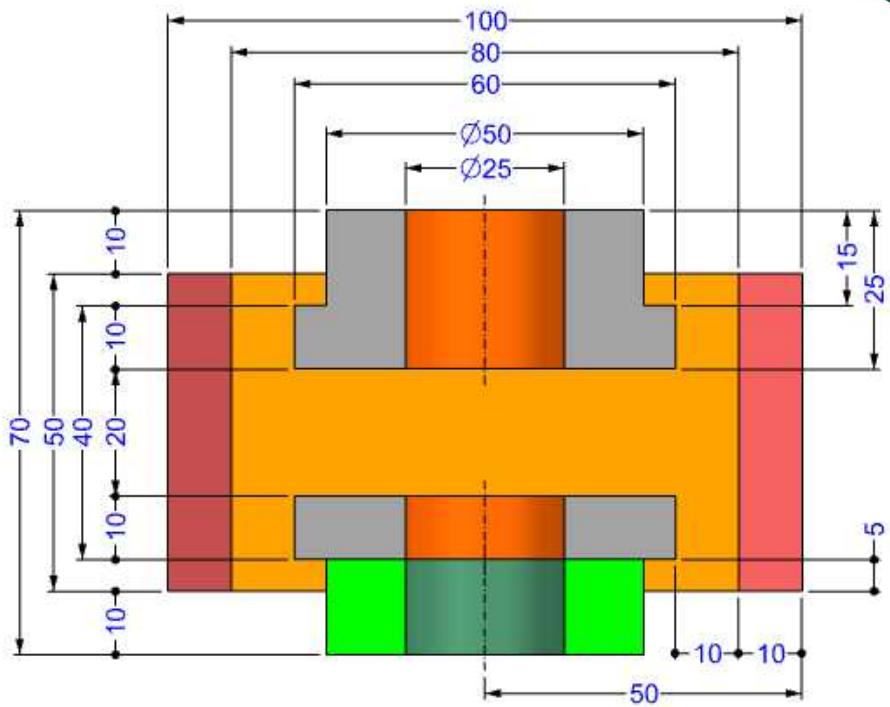
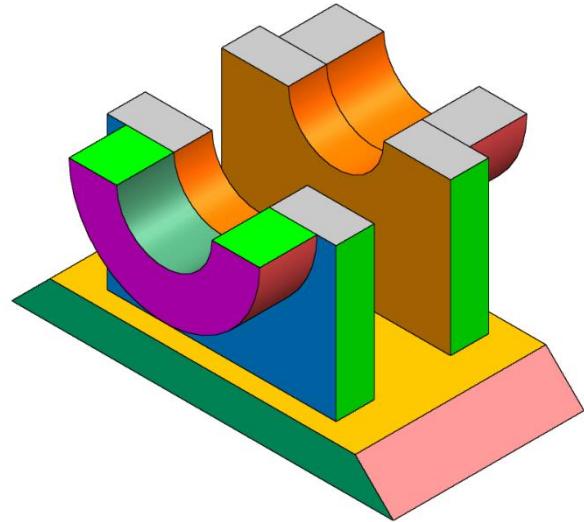
EXERCISE-38



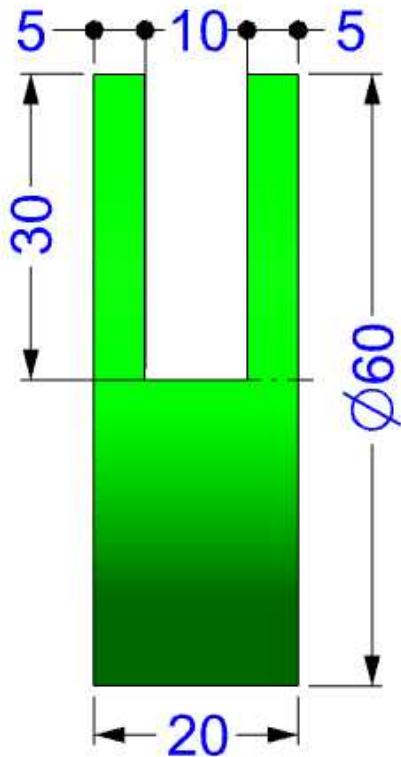
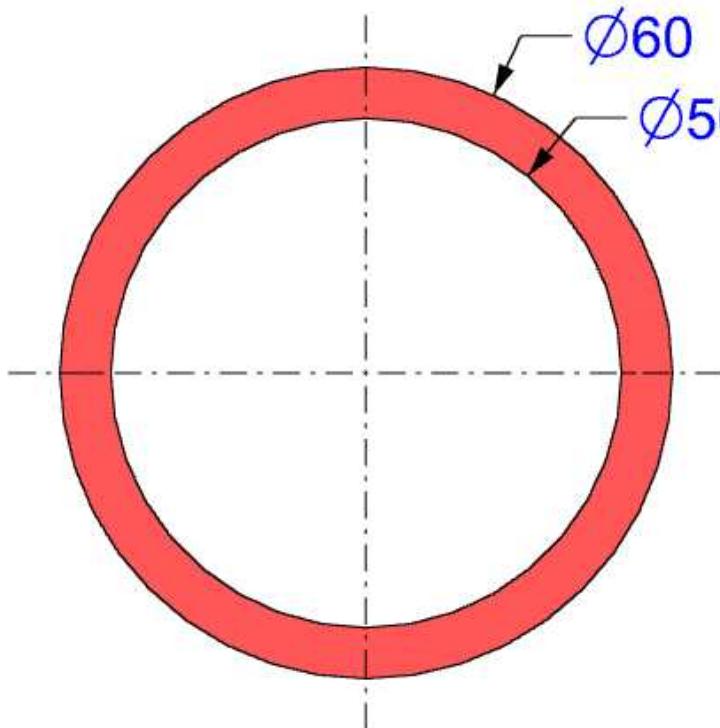
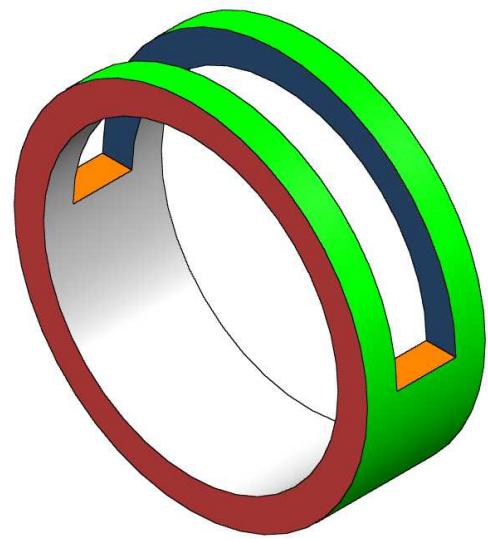
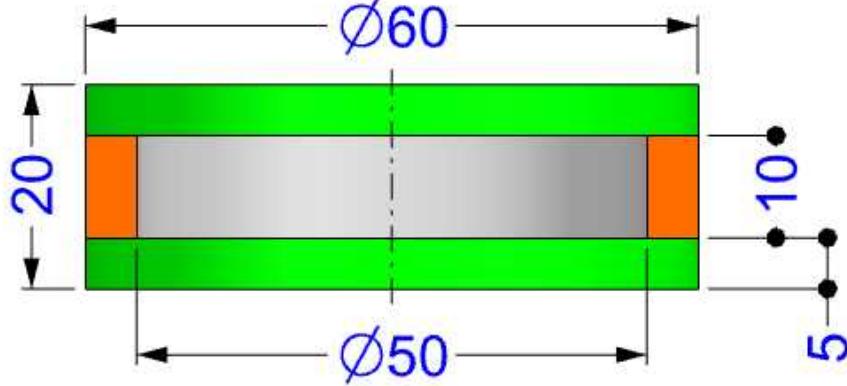
EXERCISE-39



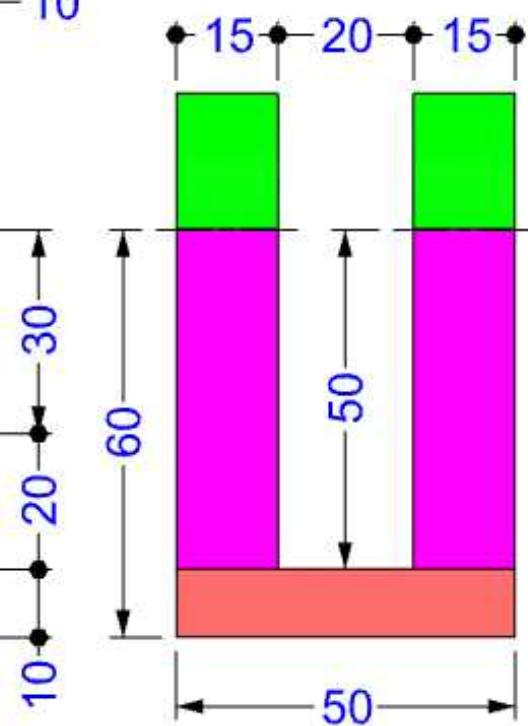
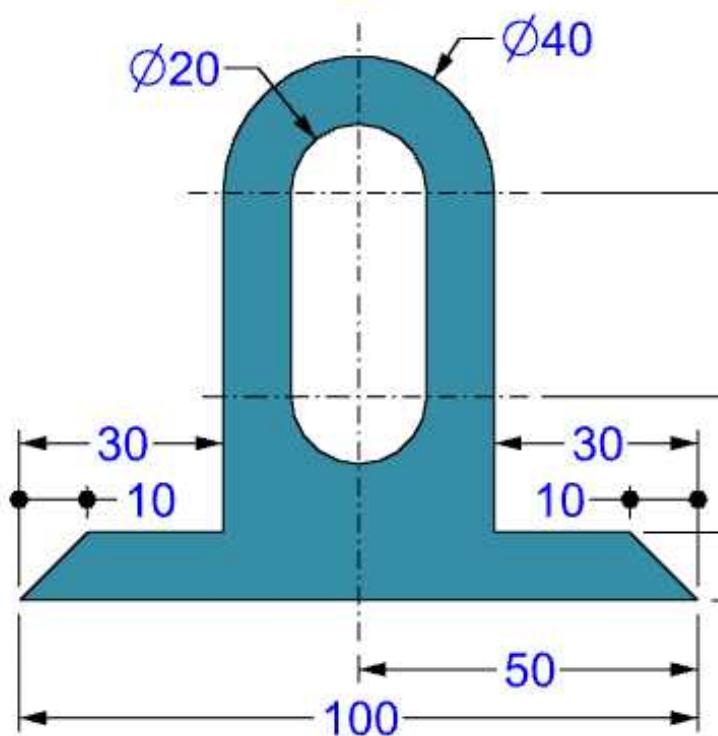
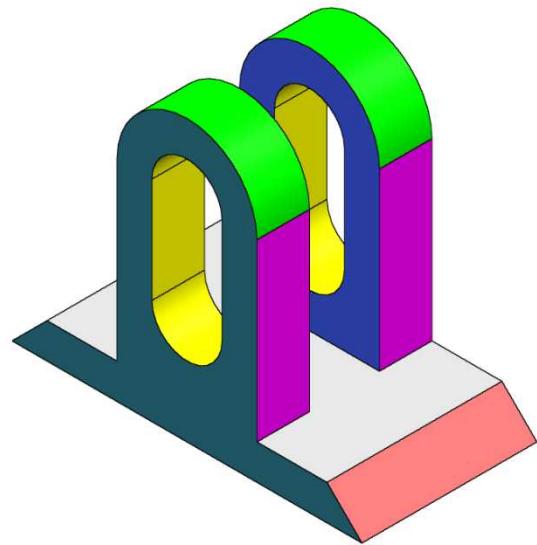
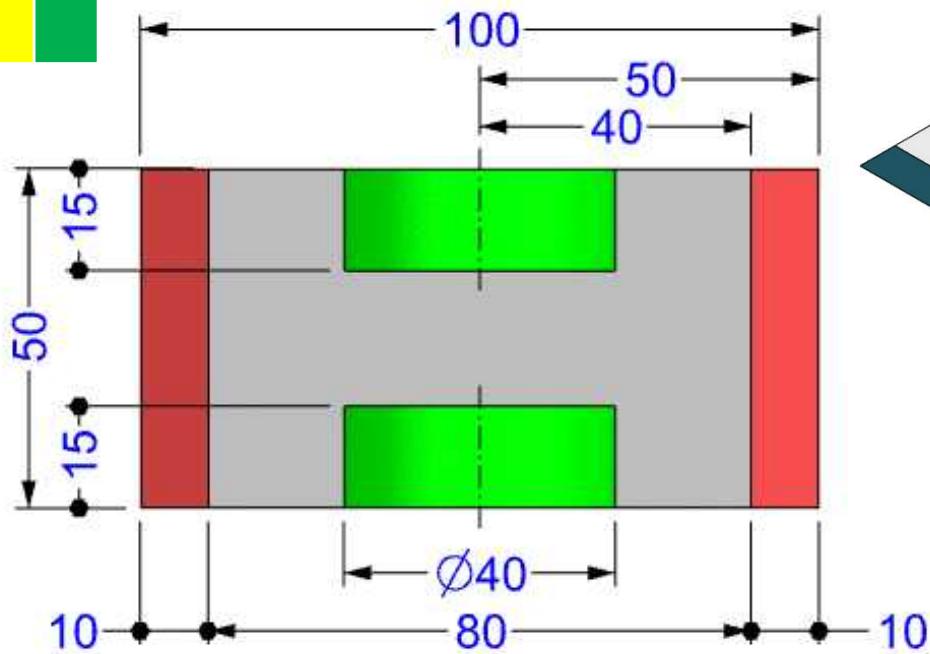
EXERCISE-40



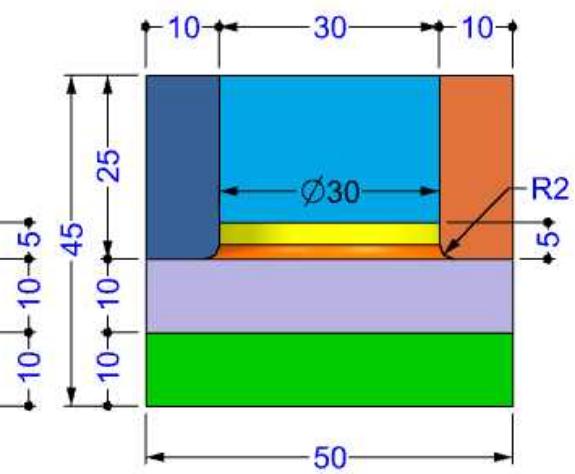
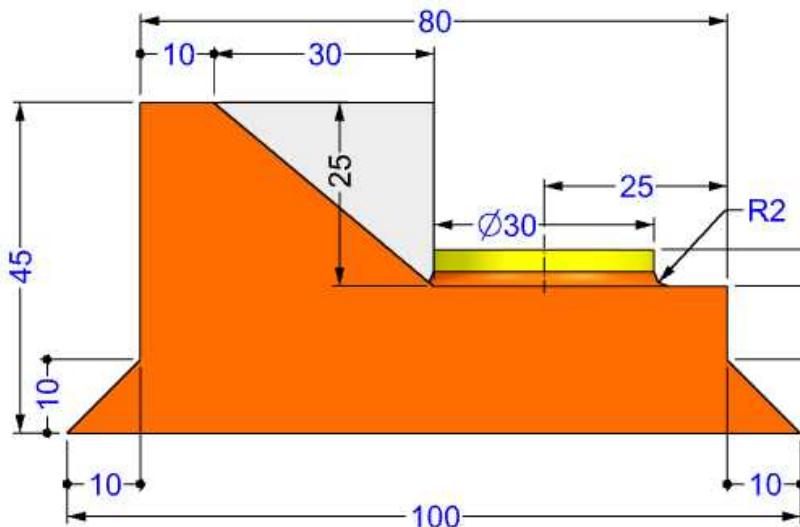
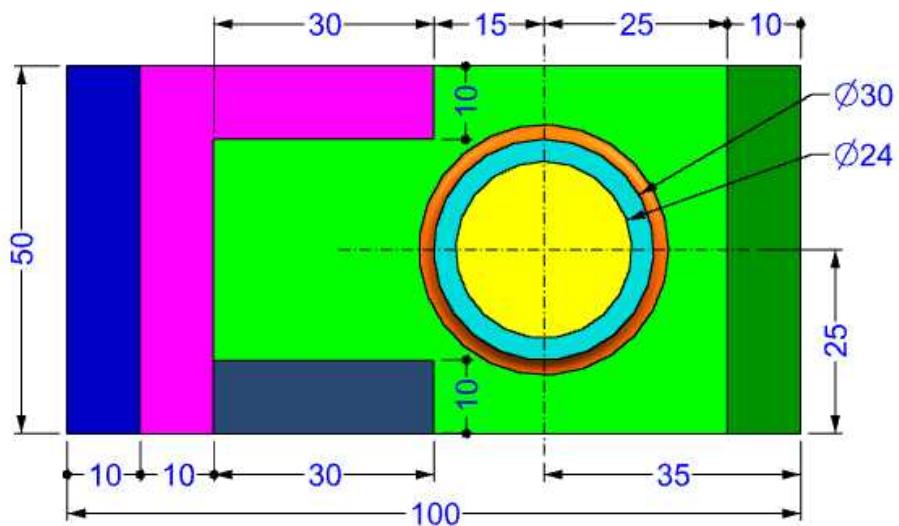
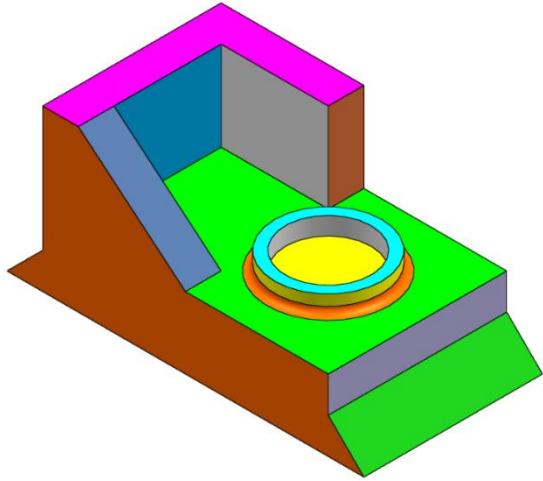
EXERCISE-41



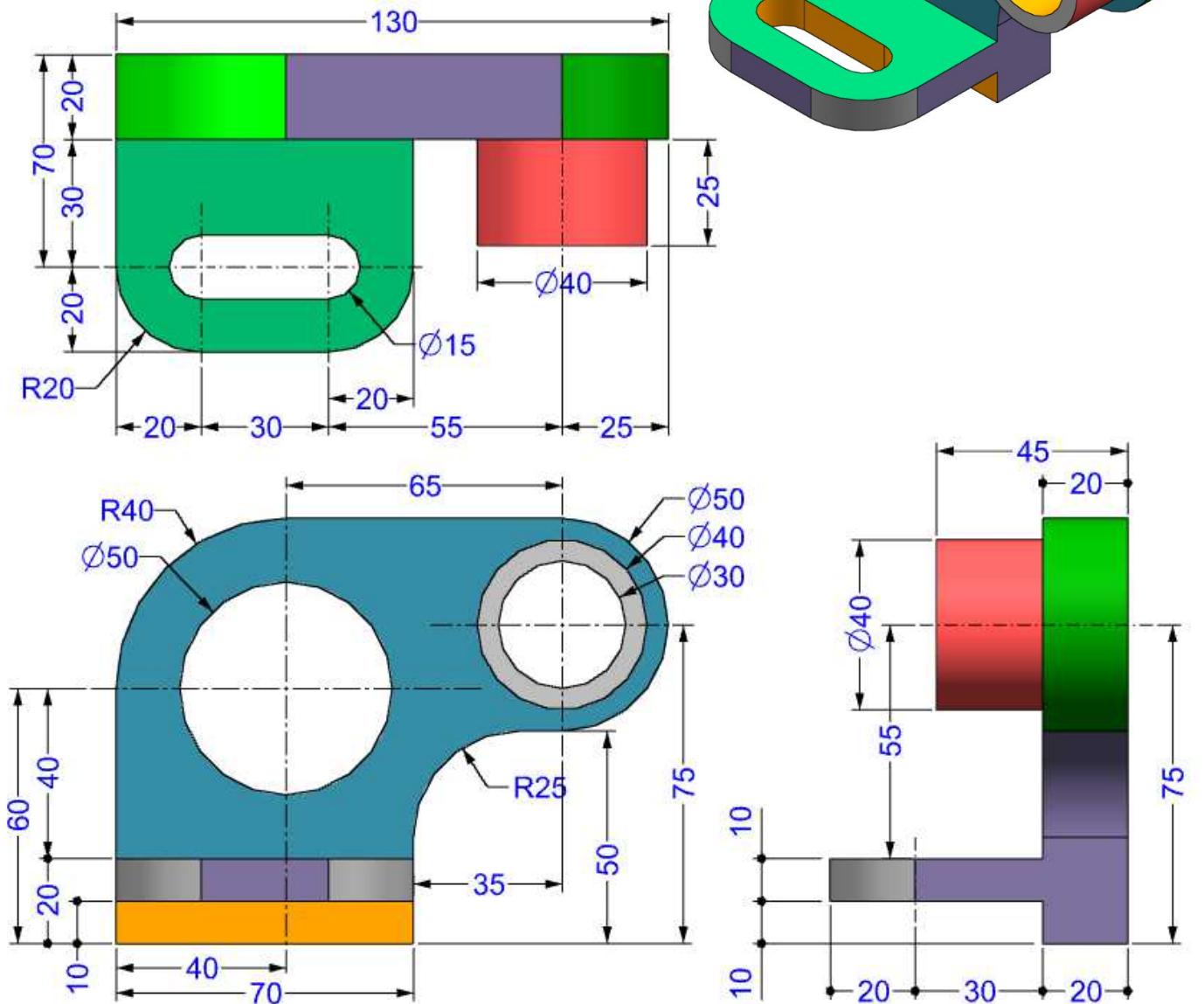
EXERCISE-42



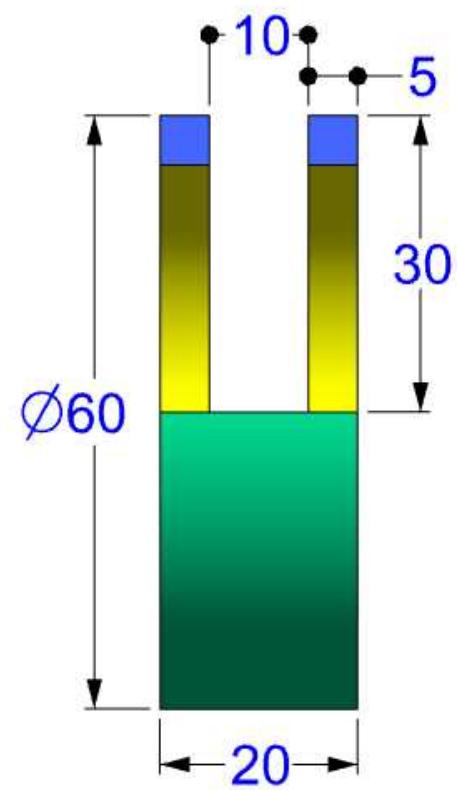
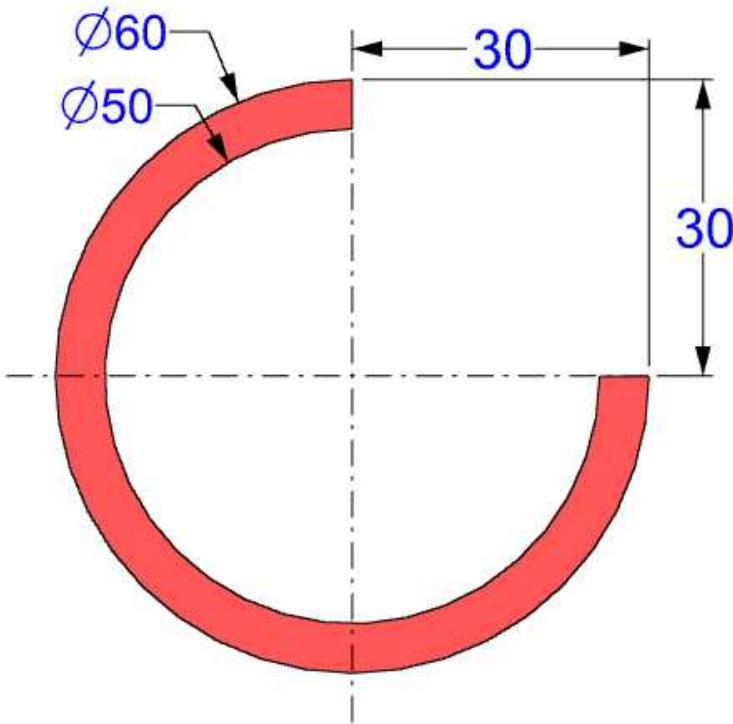
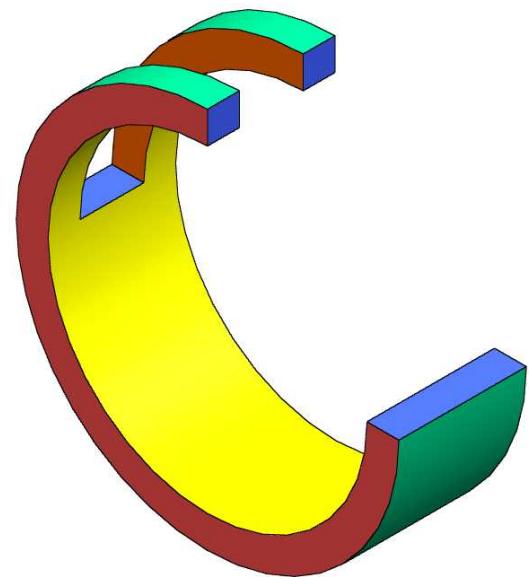
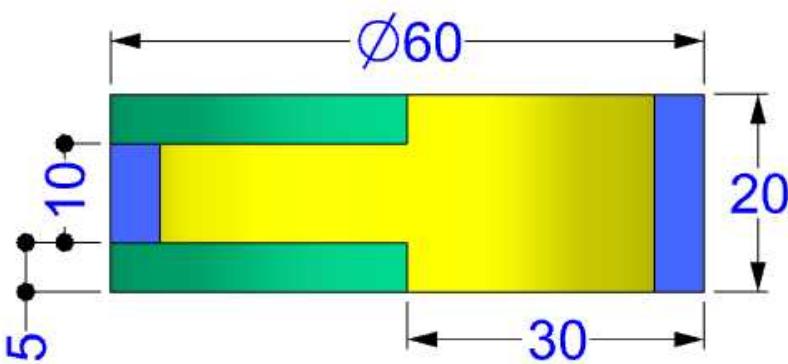
EXERCISE-43



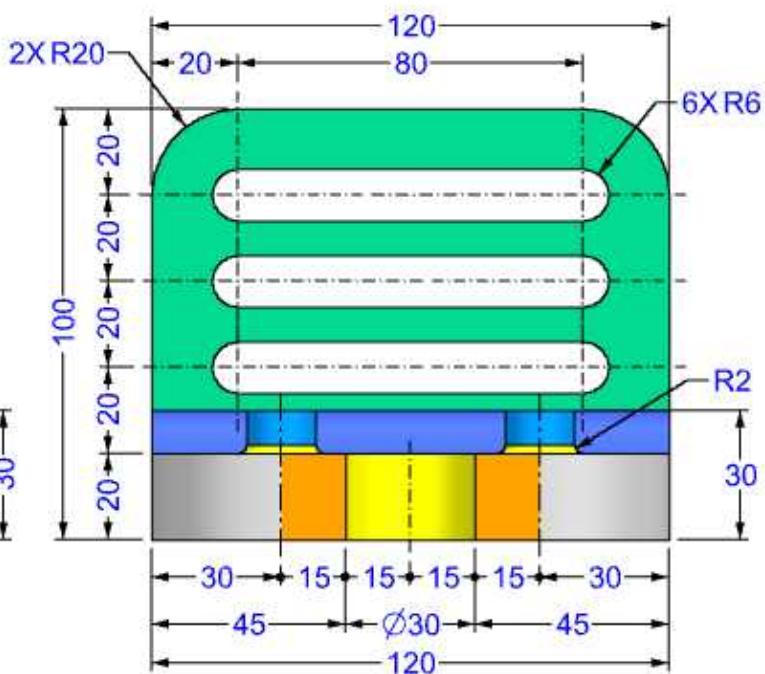
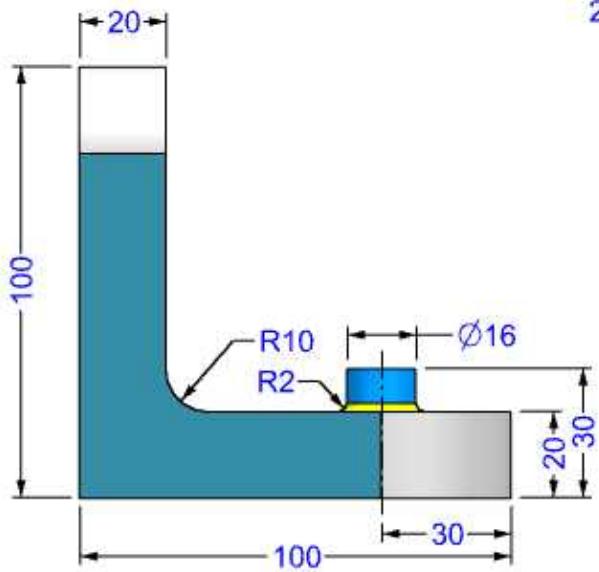
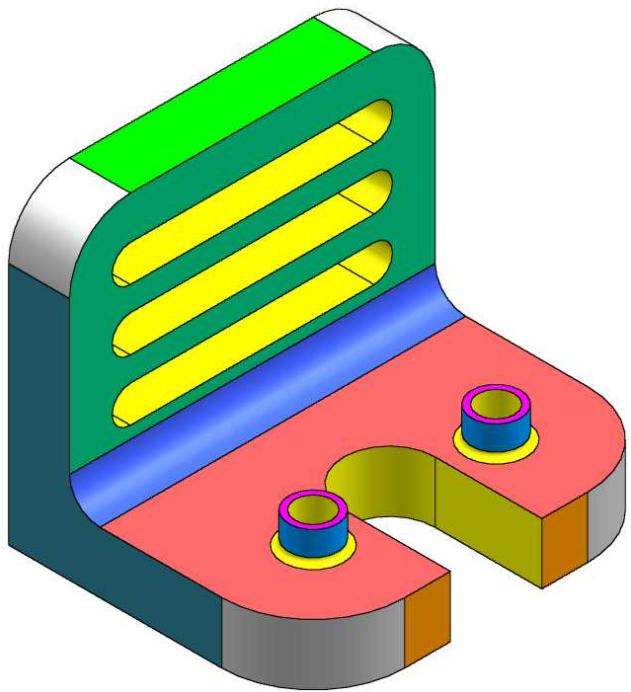
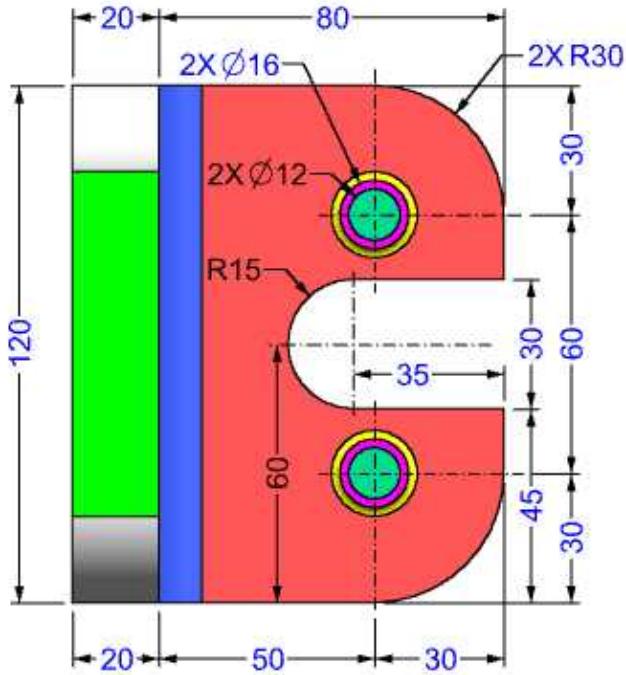
EXERCISE-44



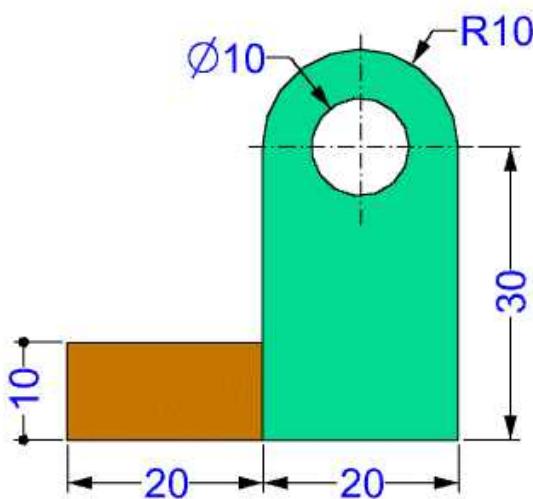
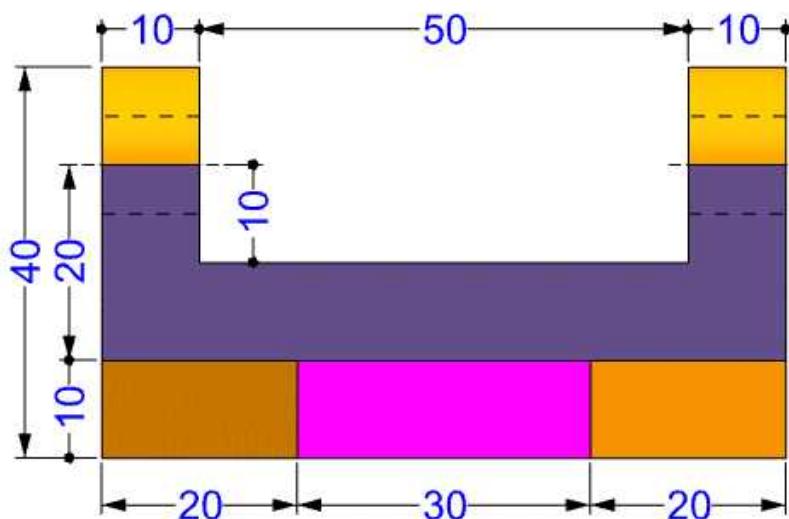
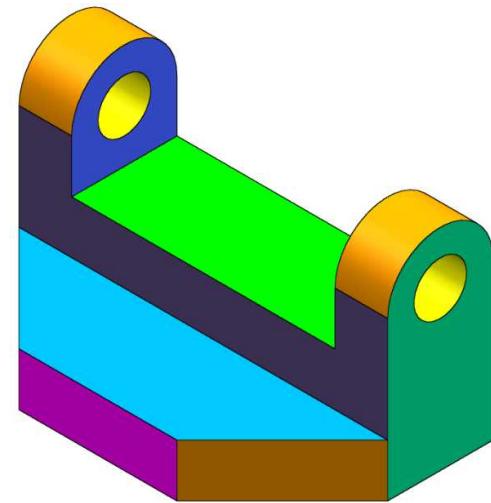
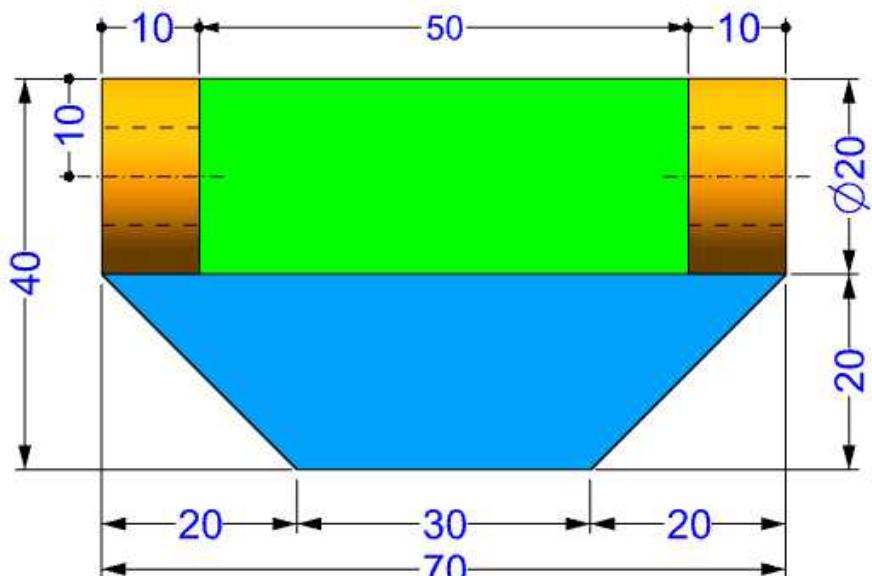
EXERCISE-45



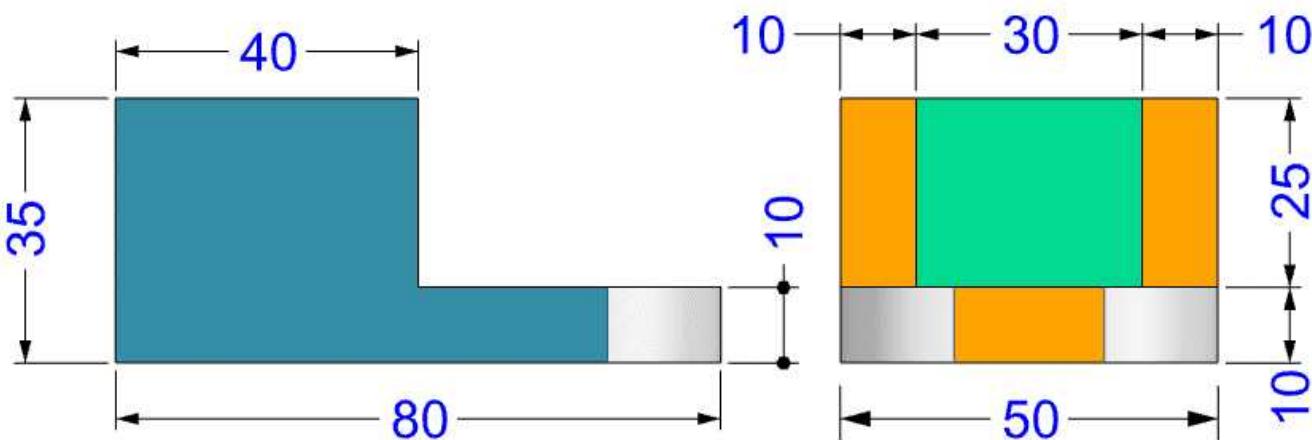
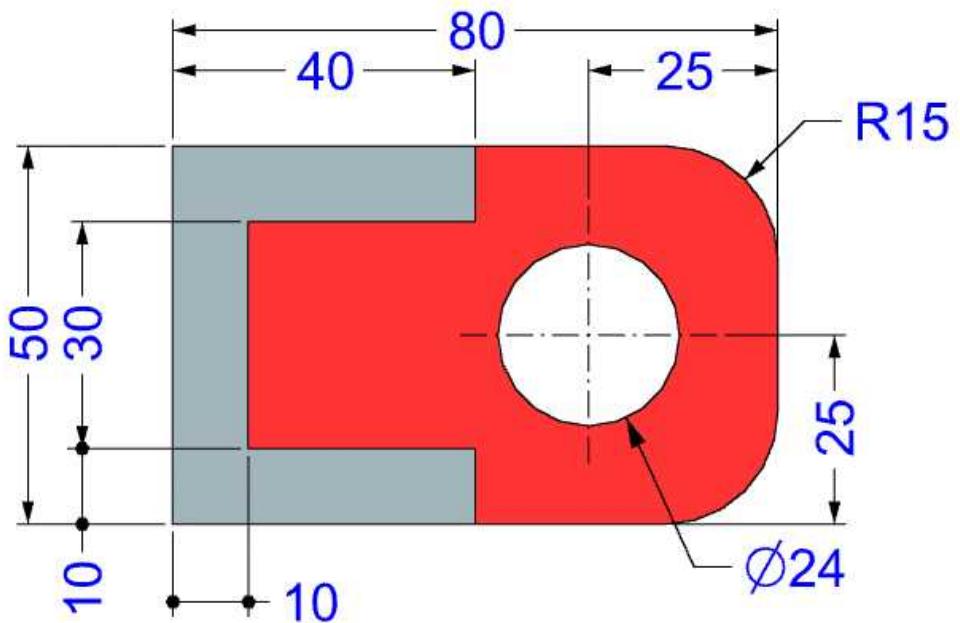
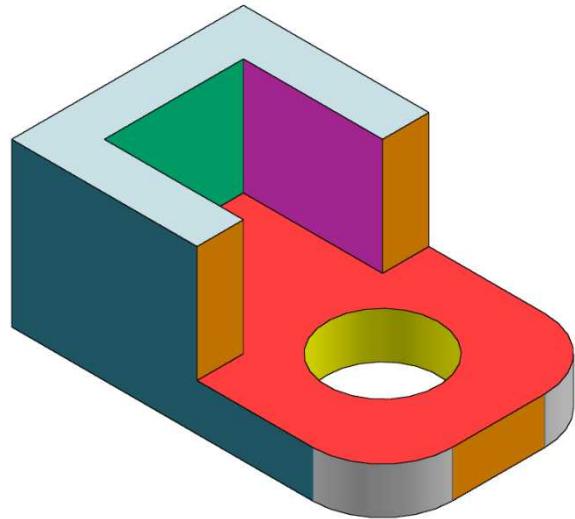
EXERCISE-46



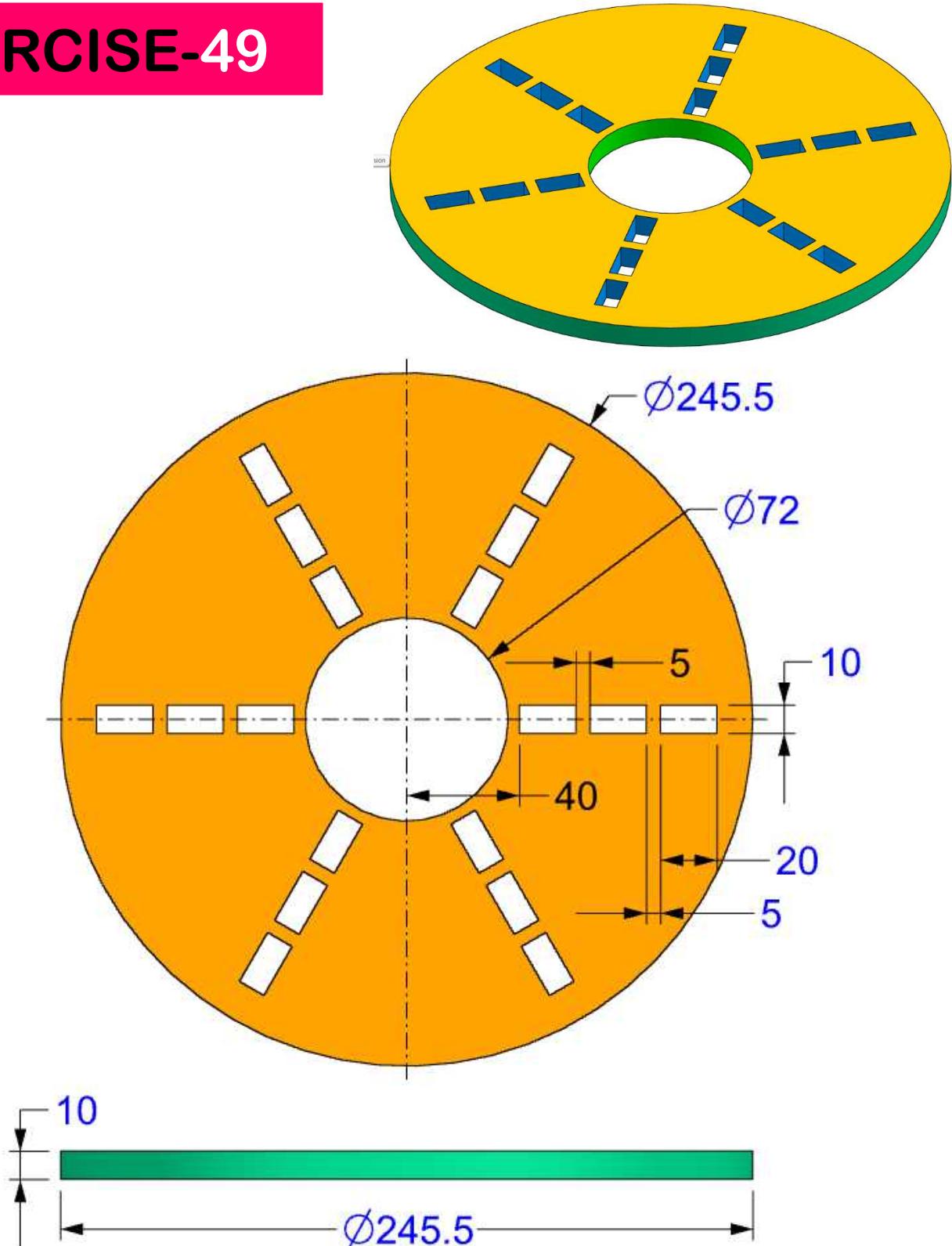
EXERCISE-47



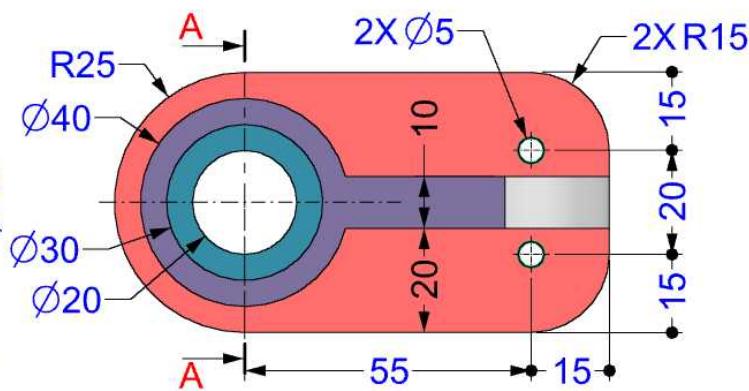
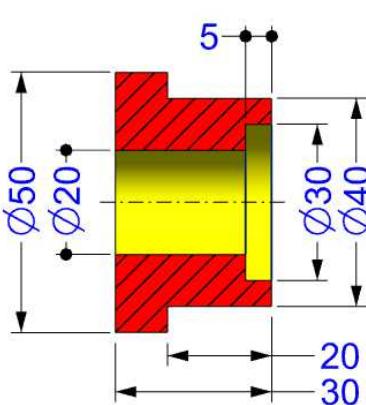
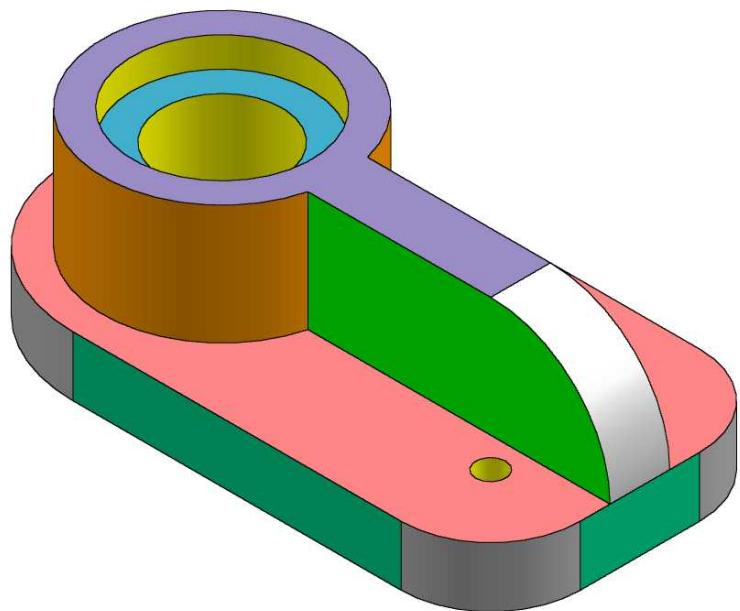
EXERCISE-48



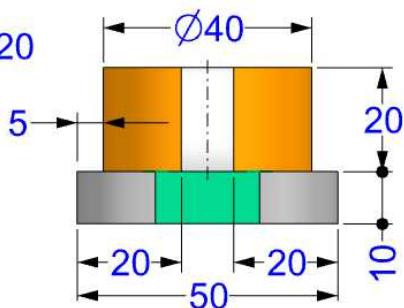
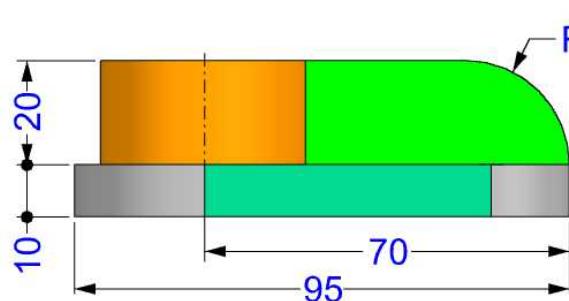
EXERCISE-49



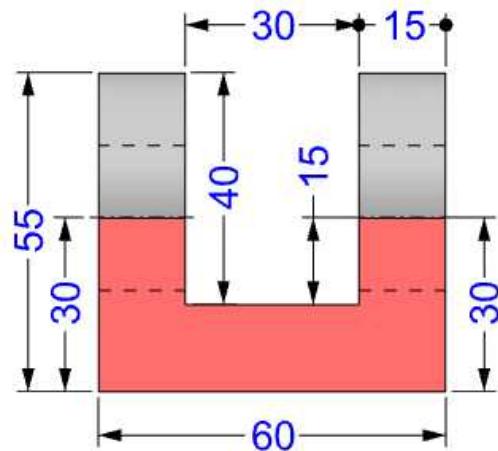
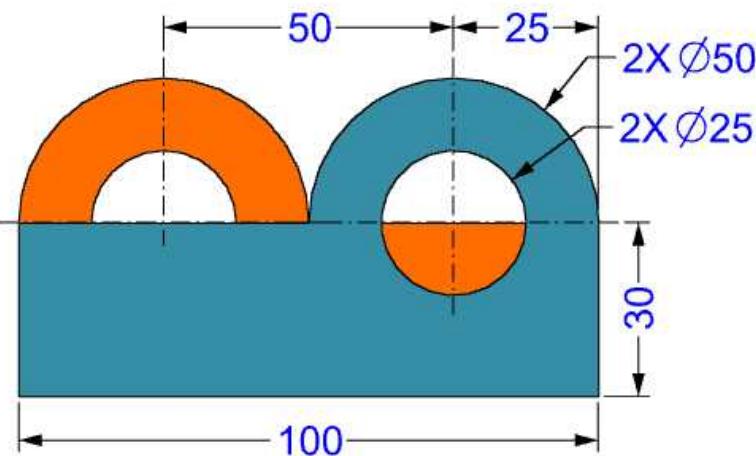
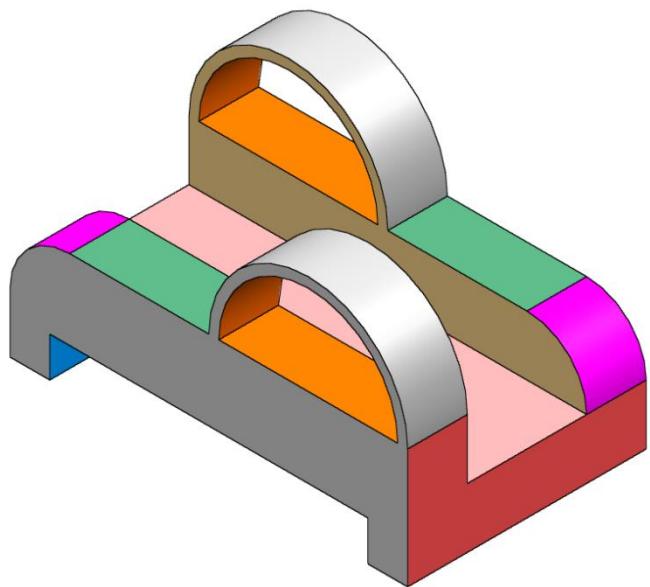
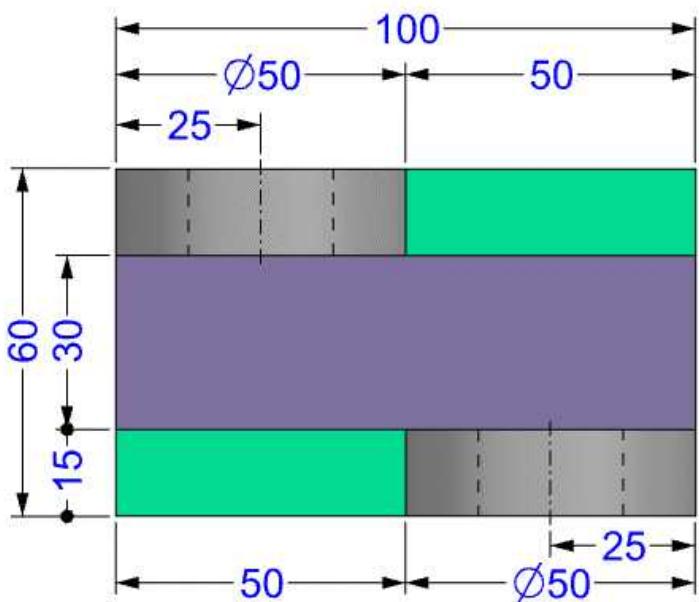
EXERCISE-50



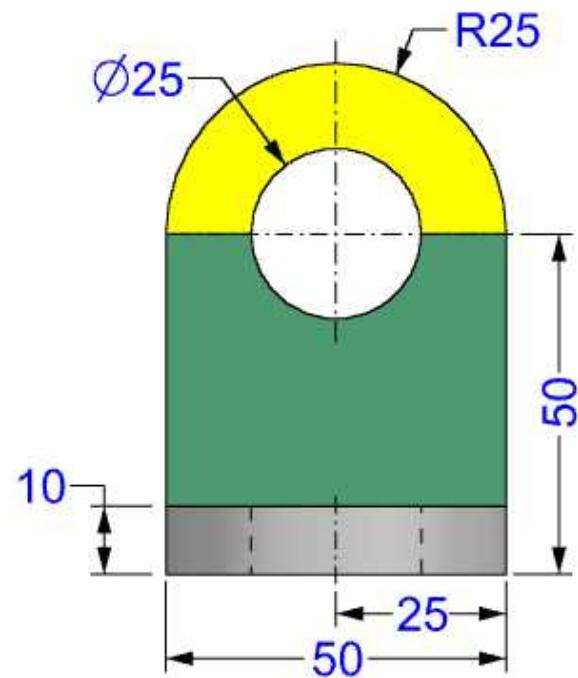
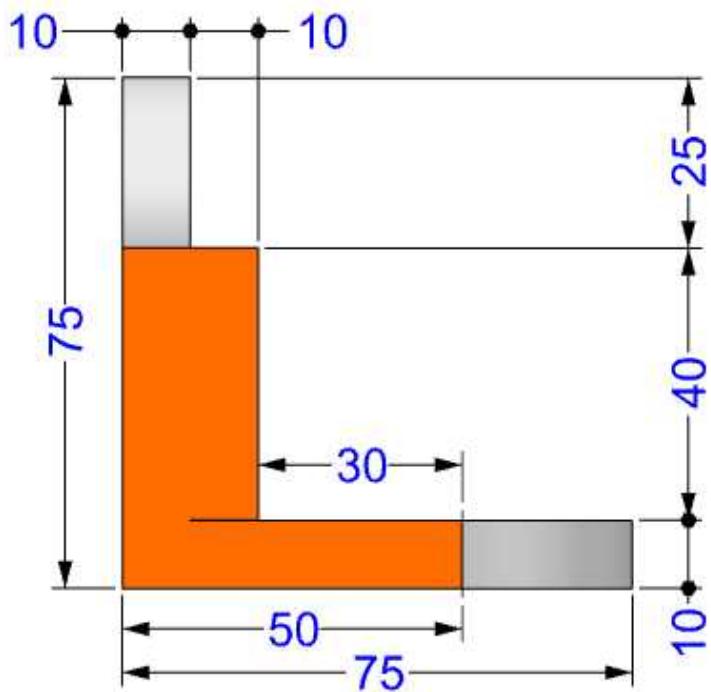
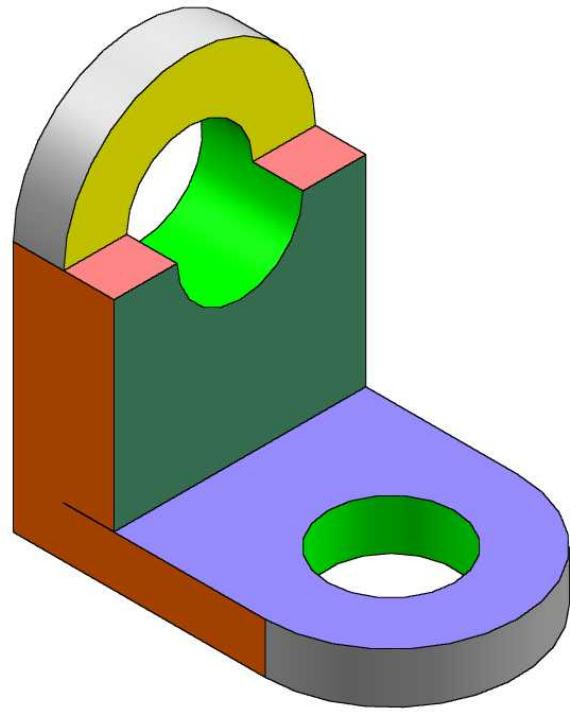
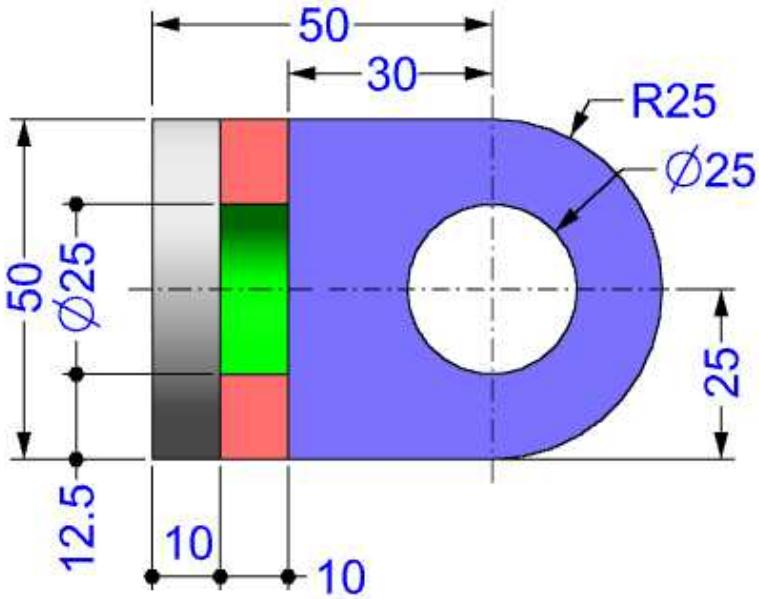
SECTION A-A



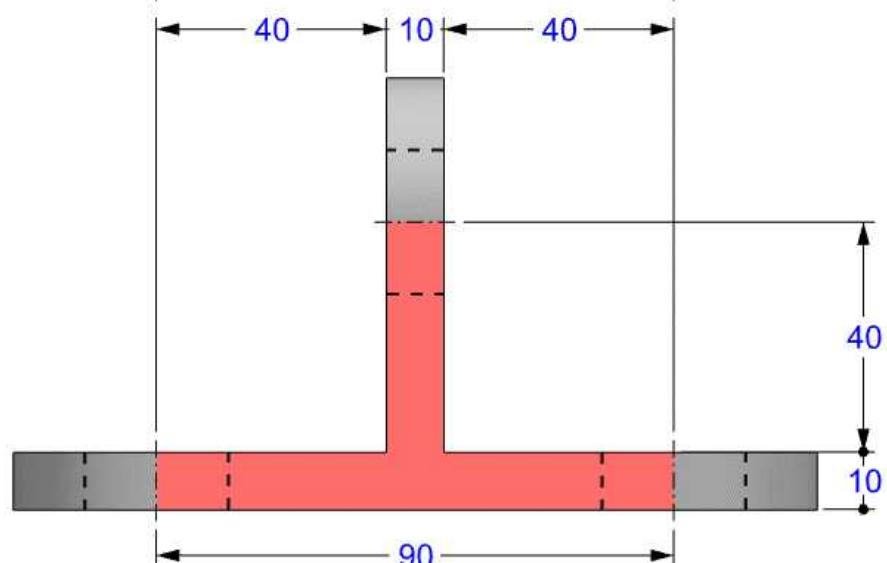
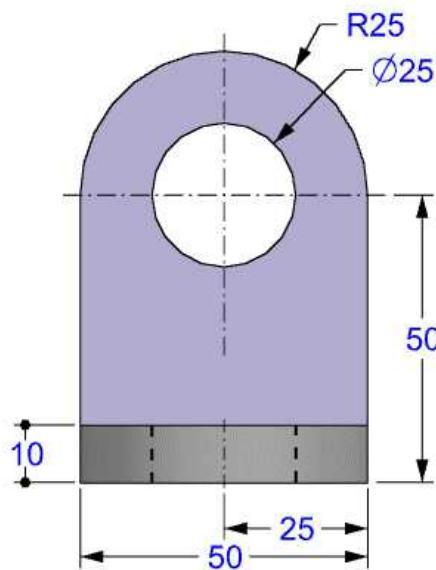
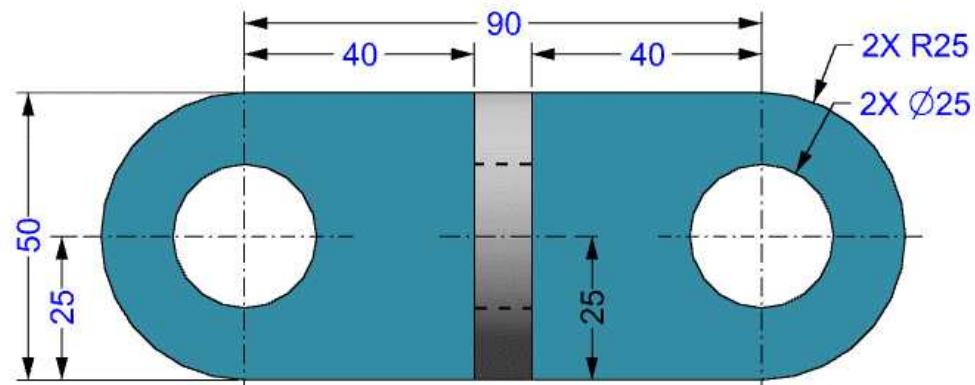
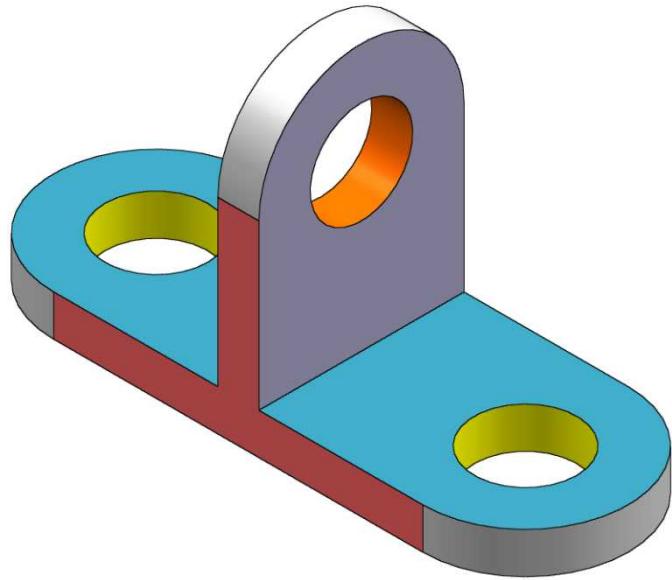
EXERCISE-51



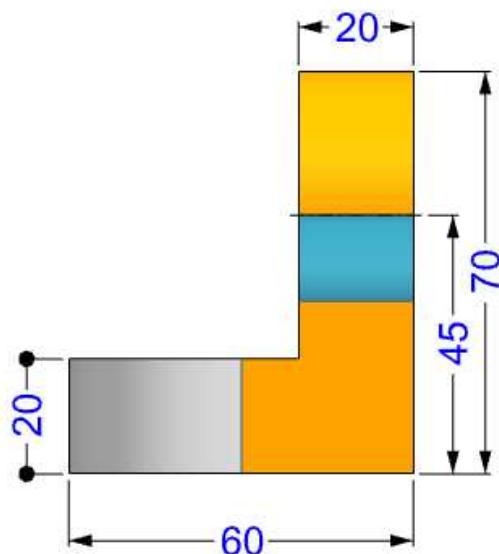
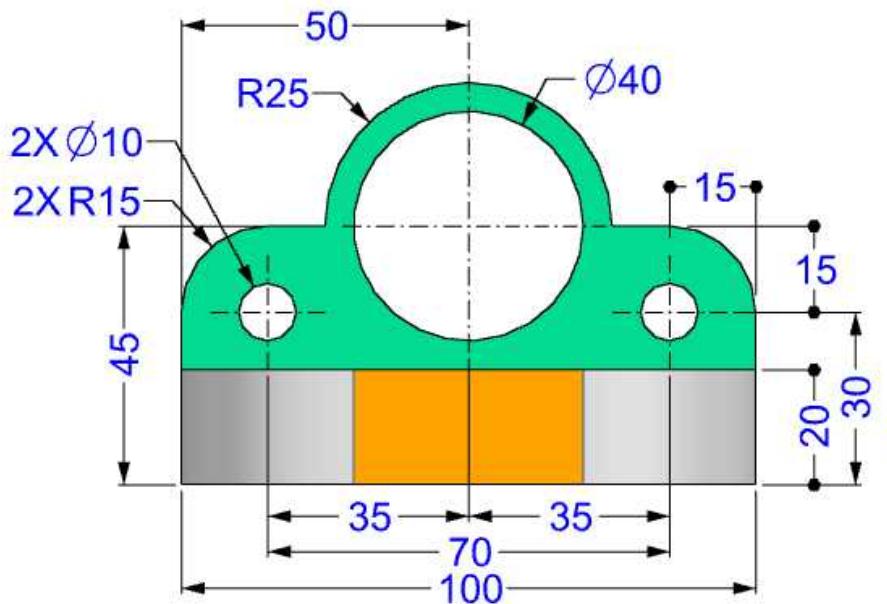
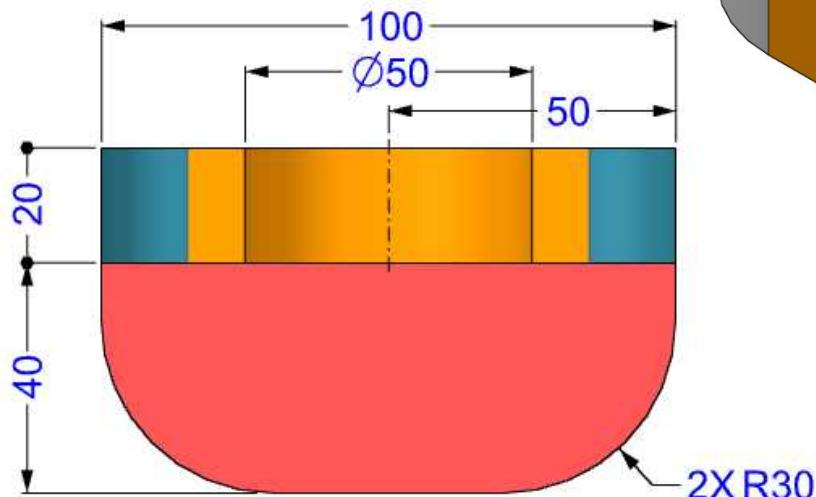
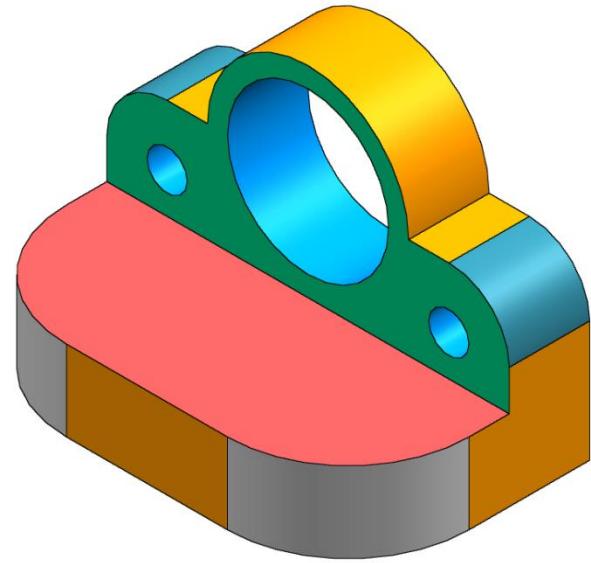
EXERCISE-52



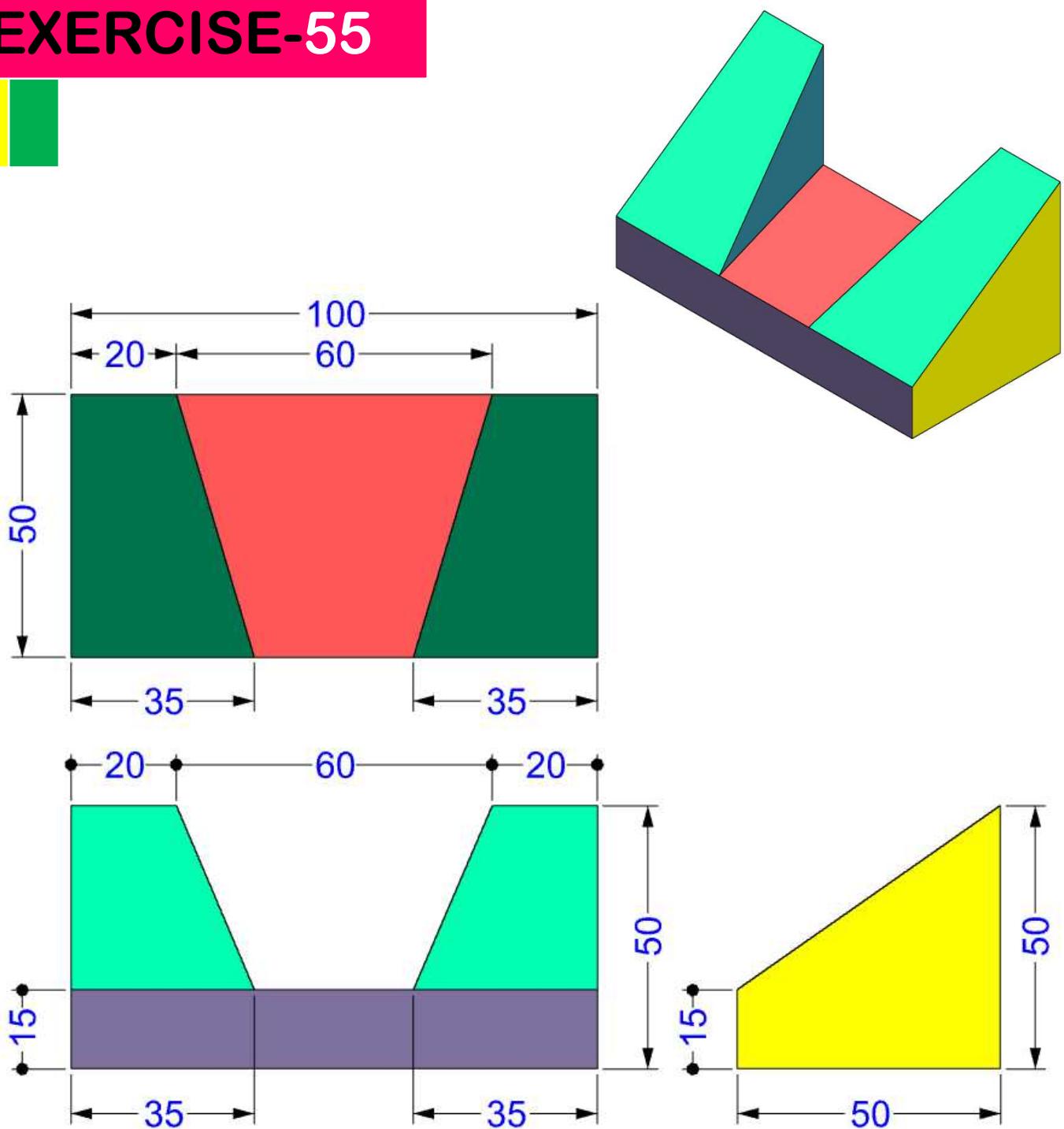
EXERCISE-53



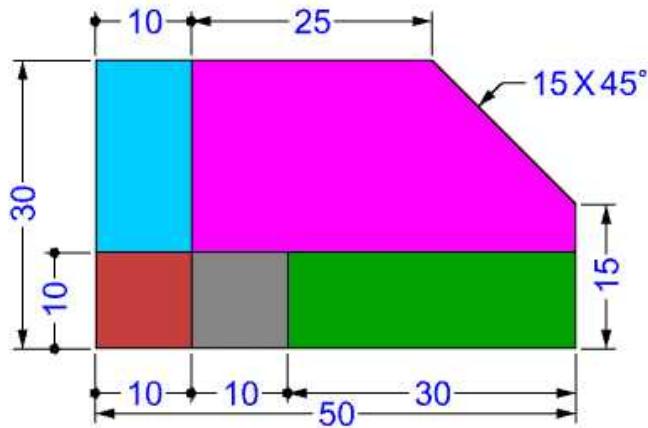
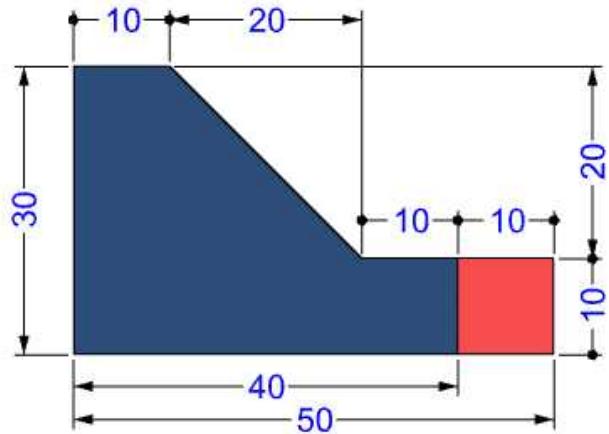
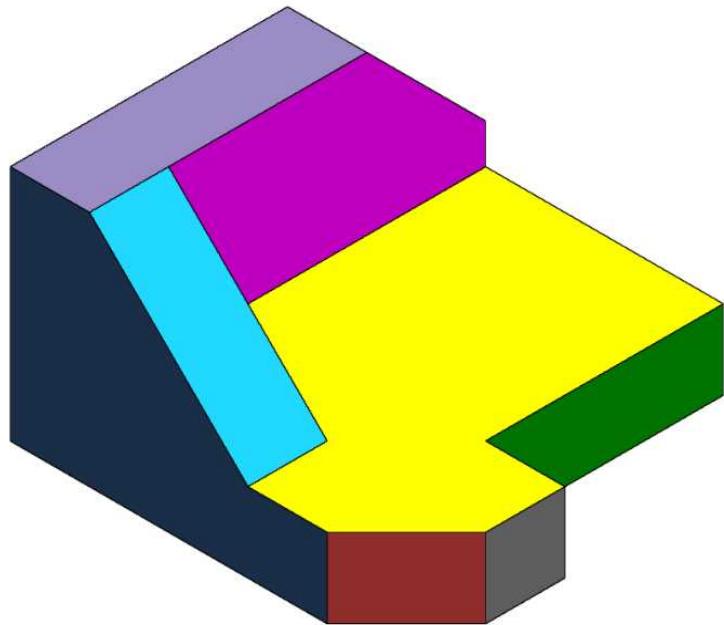
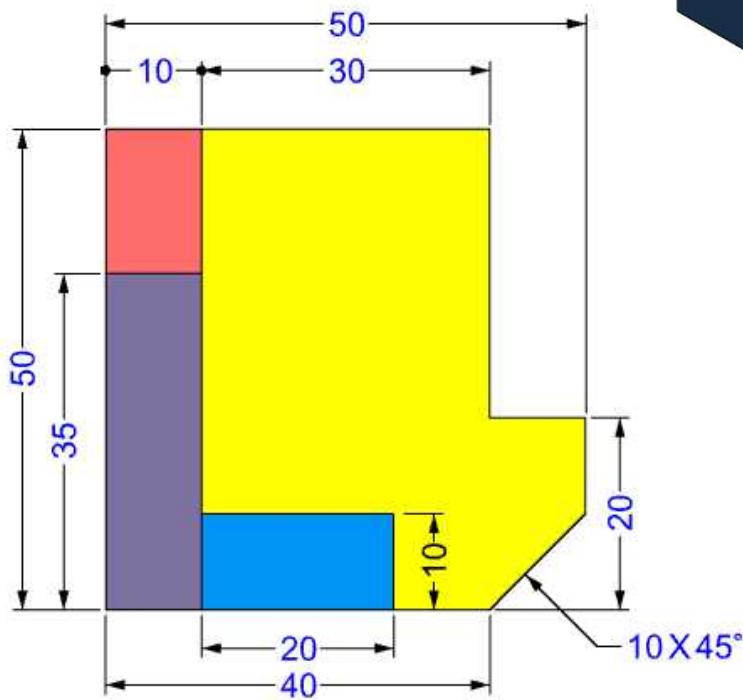
EXERCISE-54



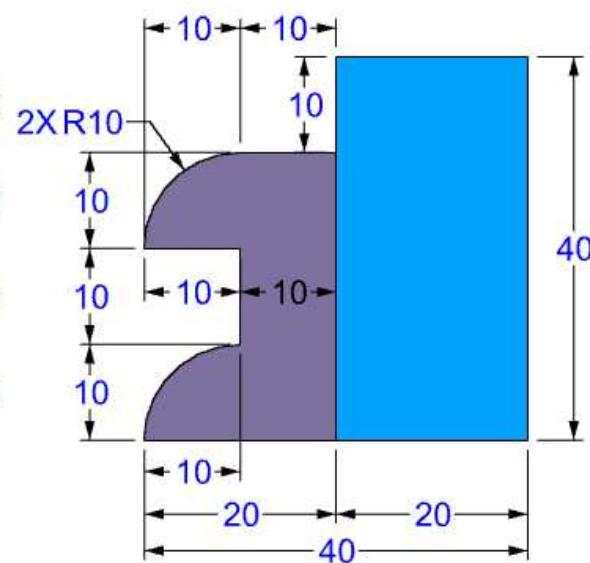
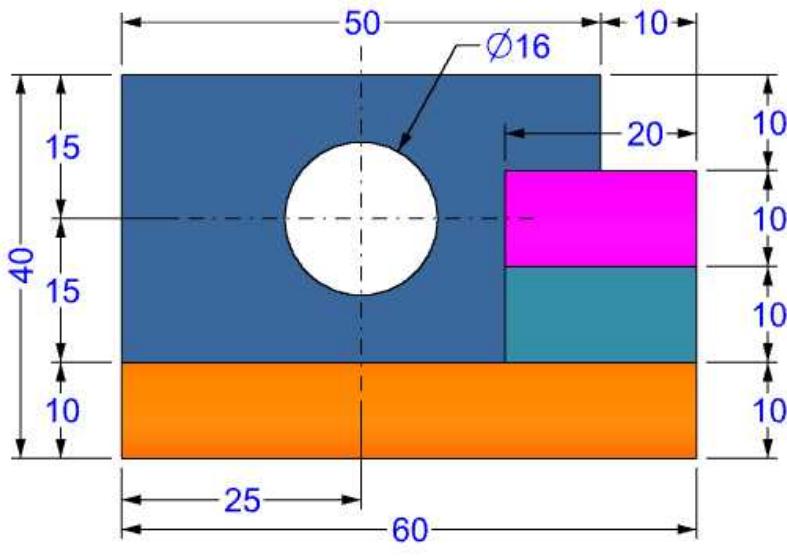
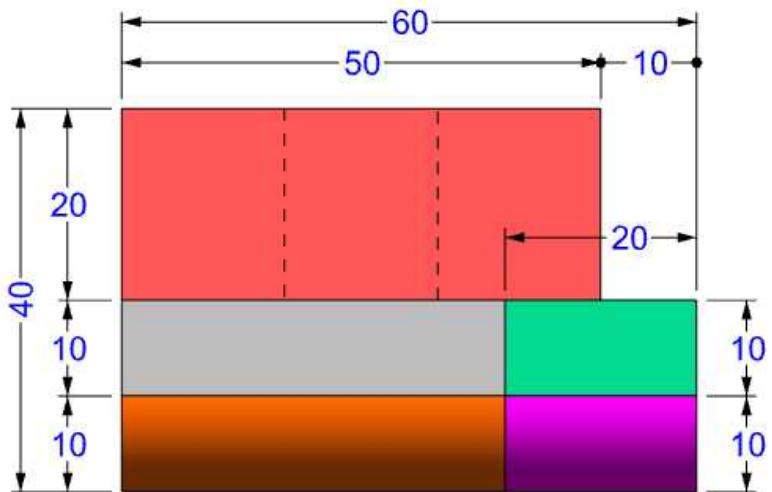
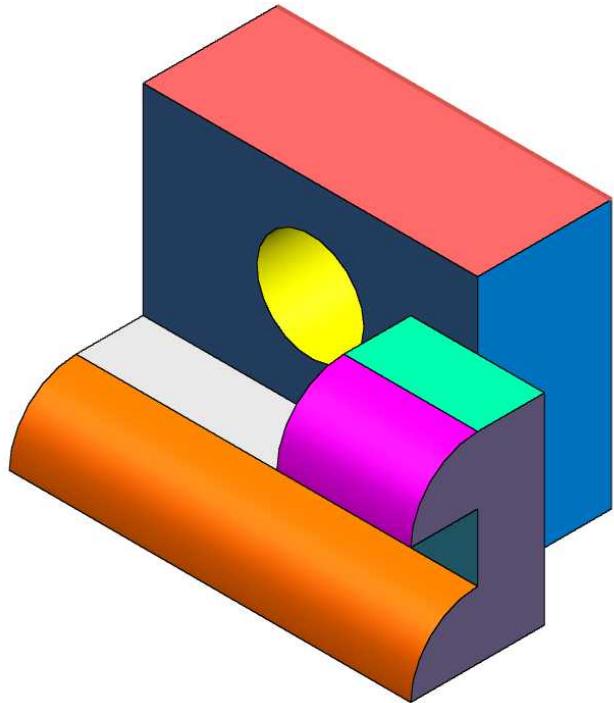
EXERCISE-55



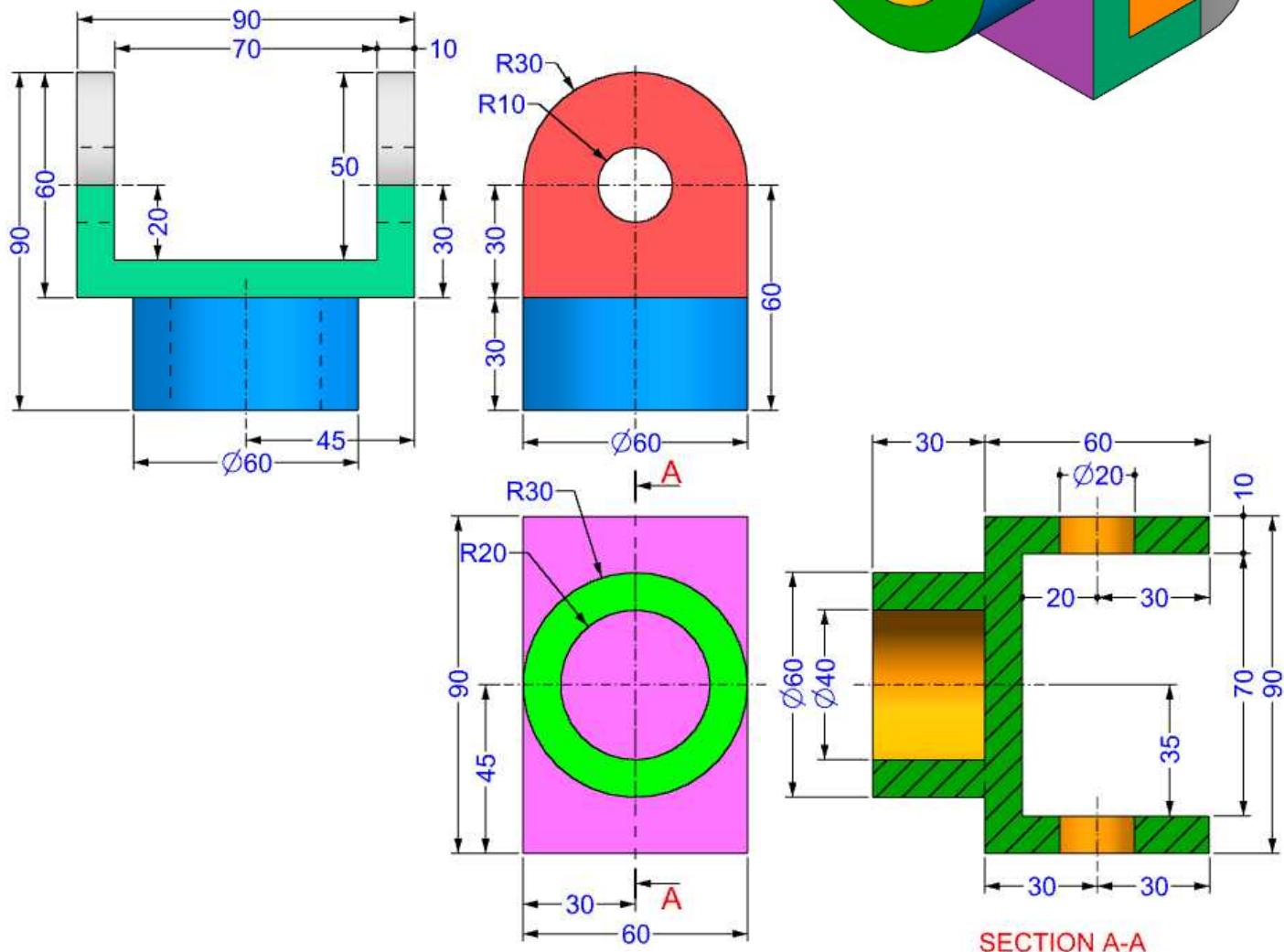
EXERCISE-56



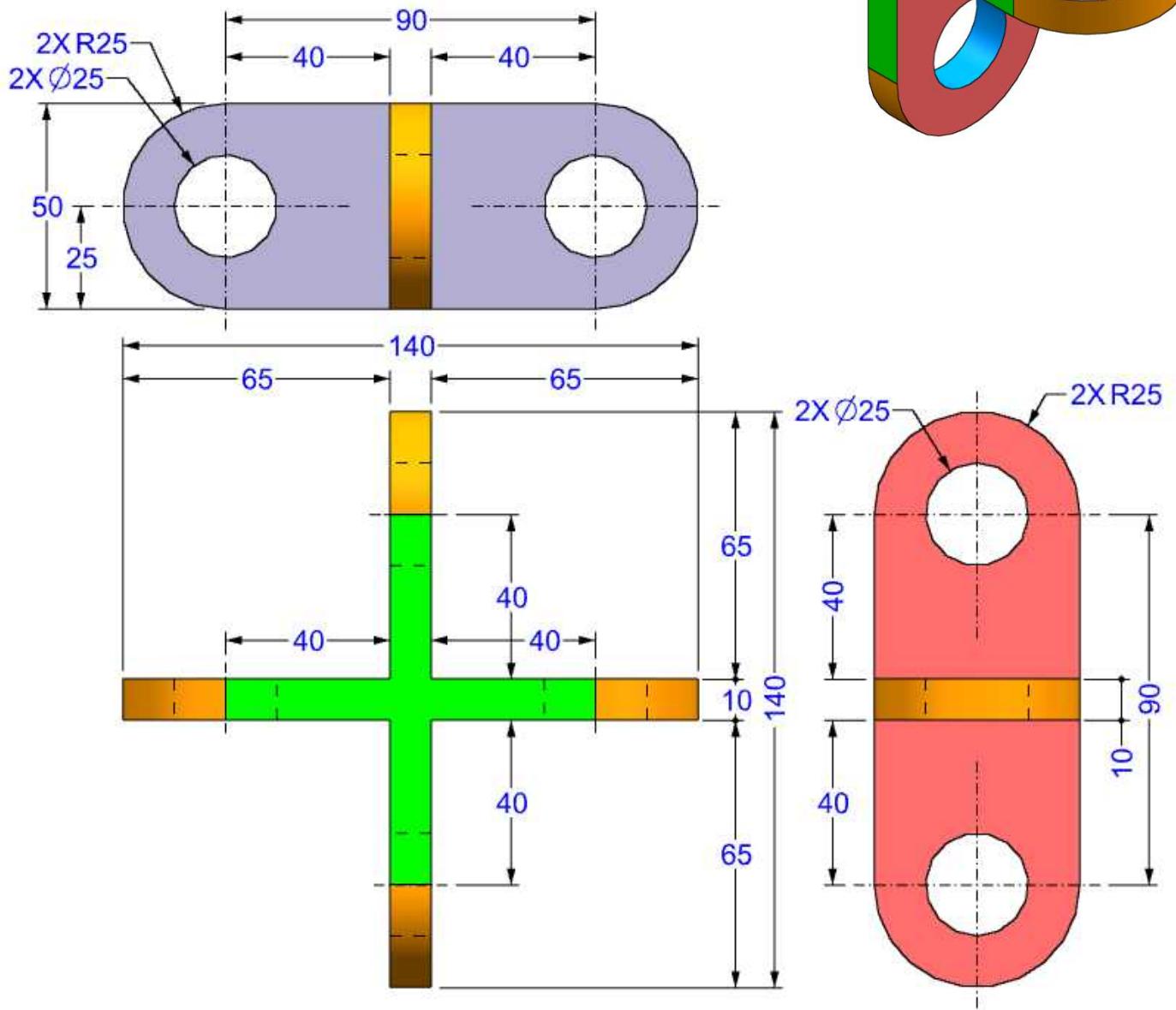
EXERCISE-57



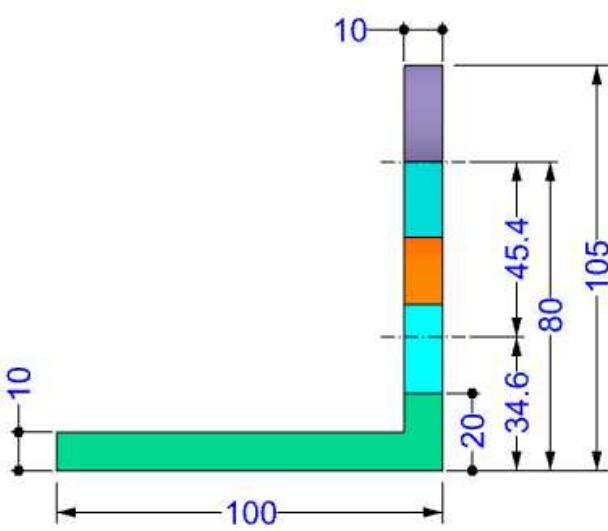
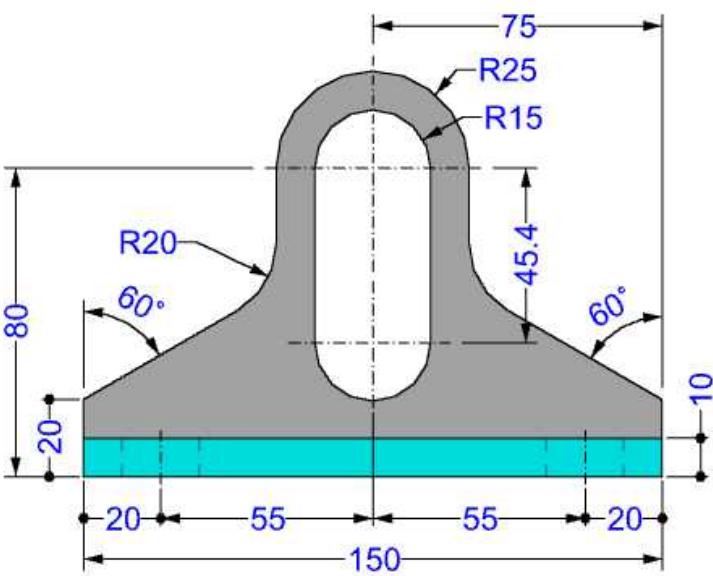
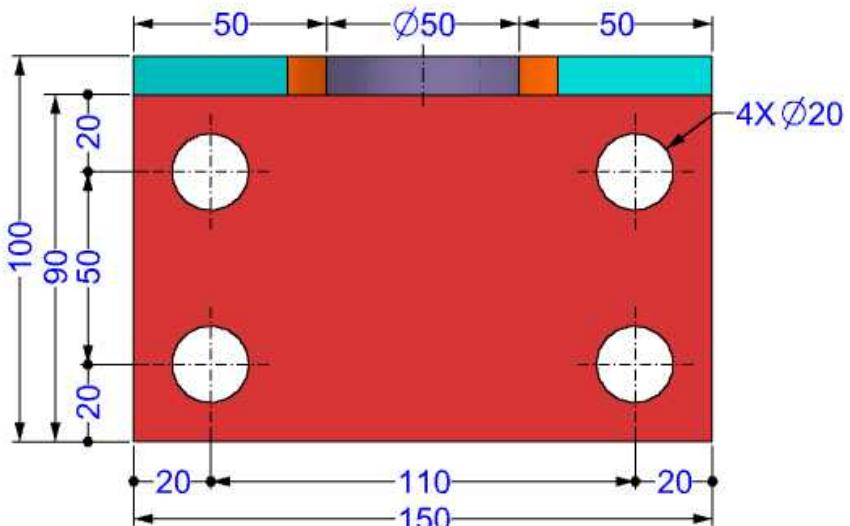
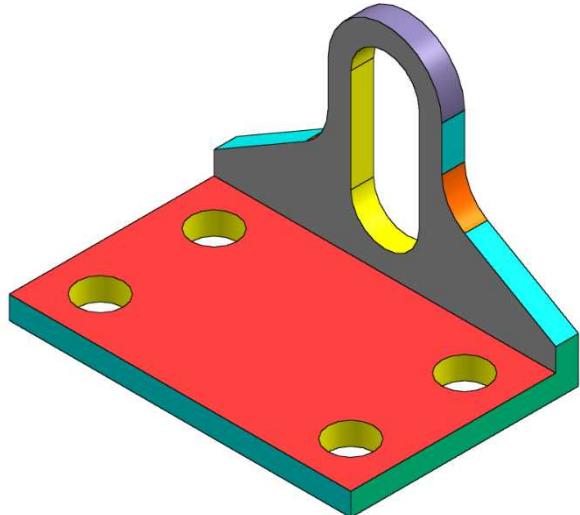
EXERCISE-58



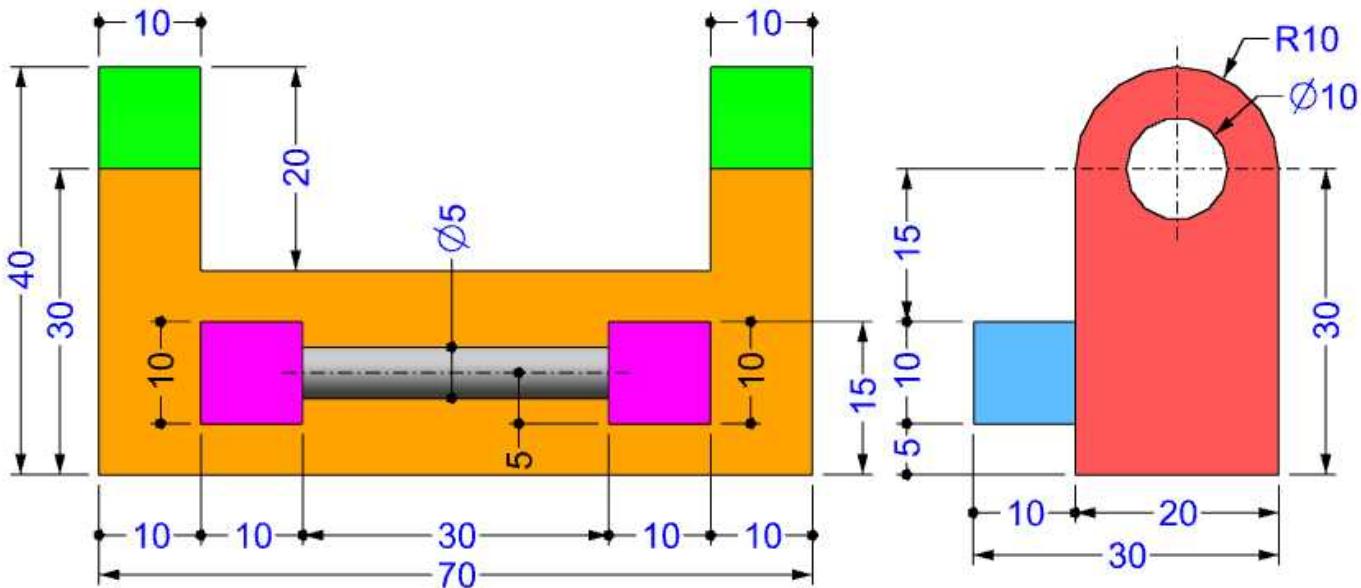
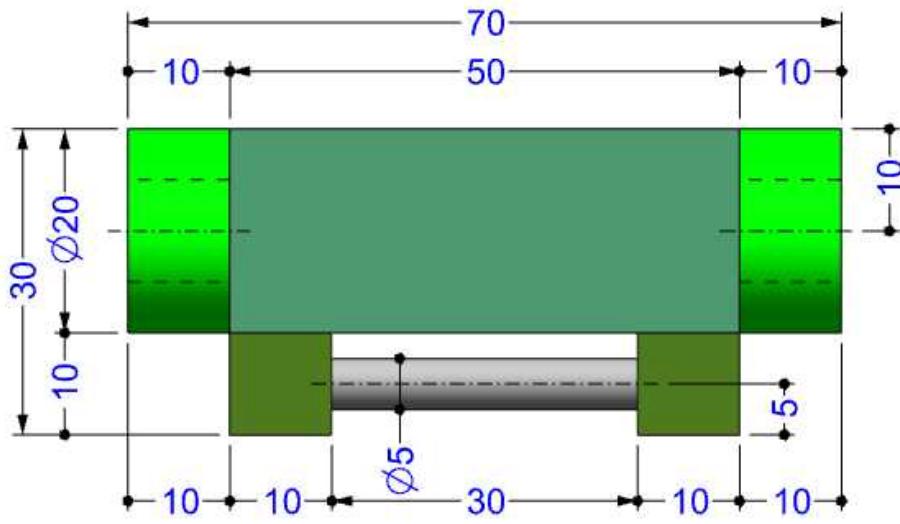
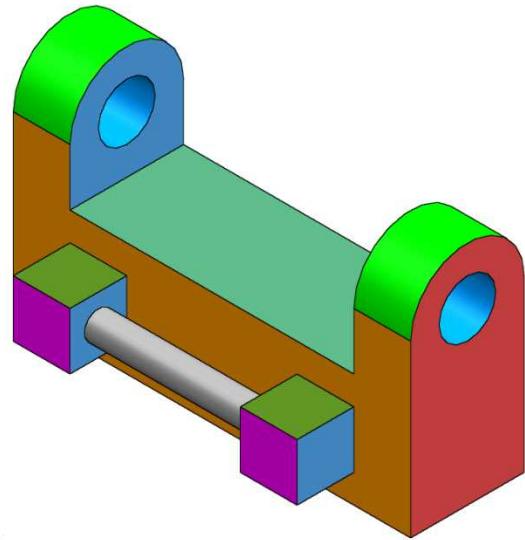
EXERCISE-59



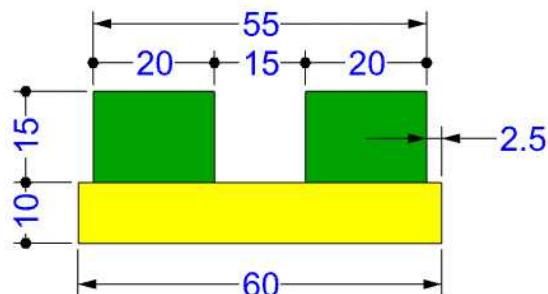
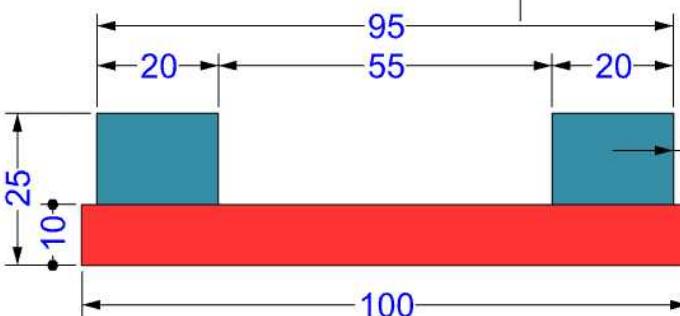
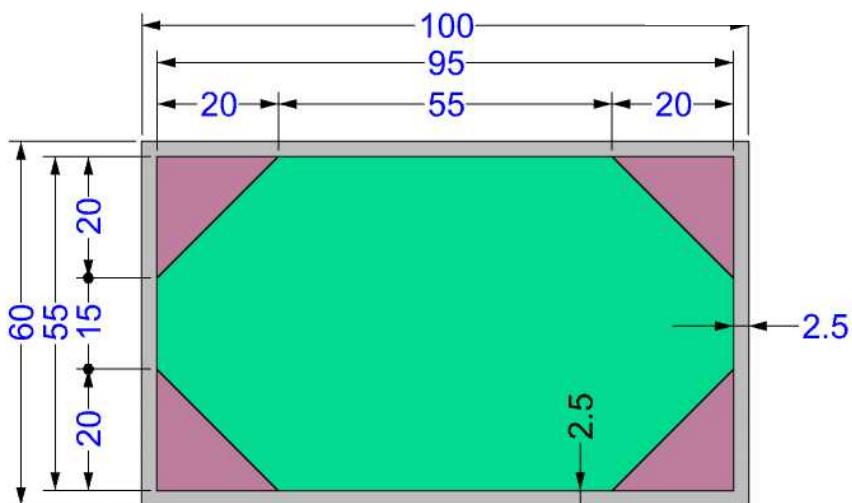
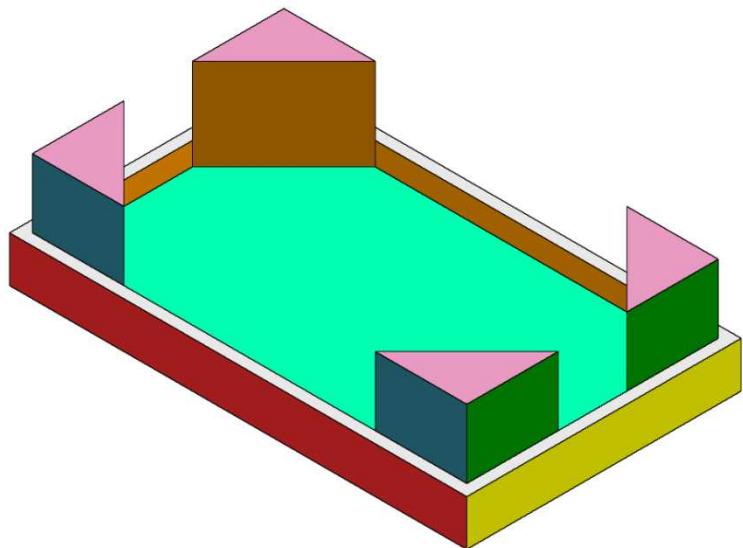
EXERCISE-60



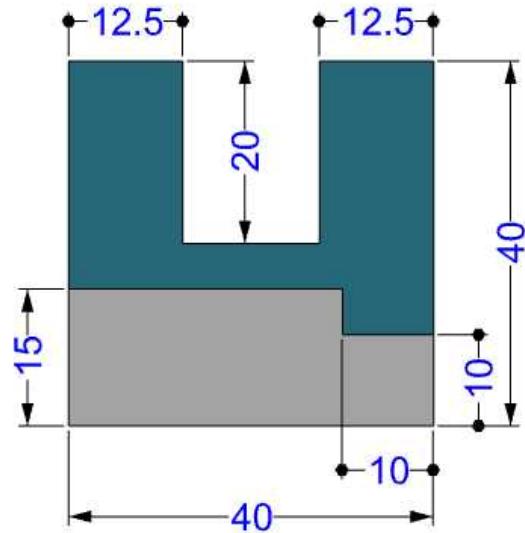
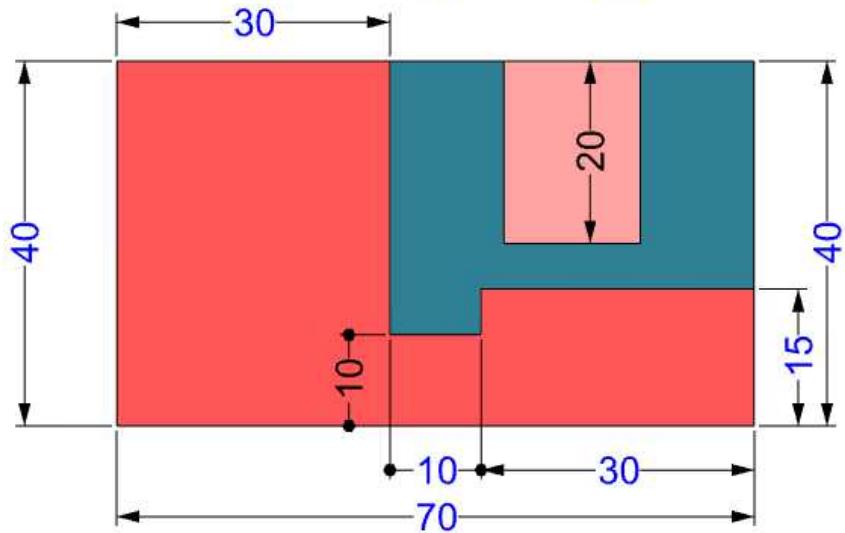
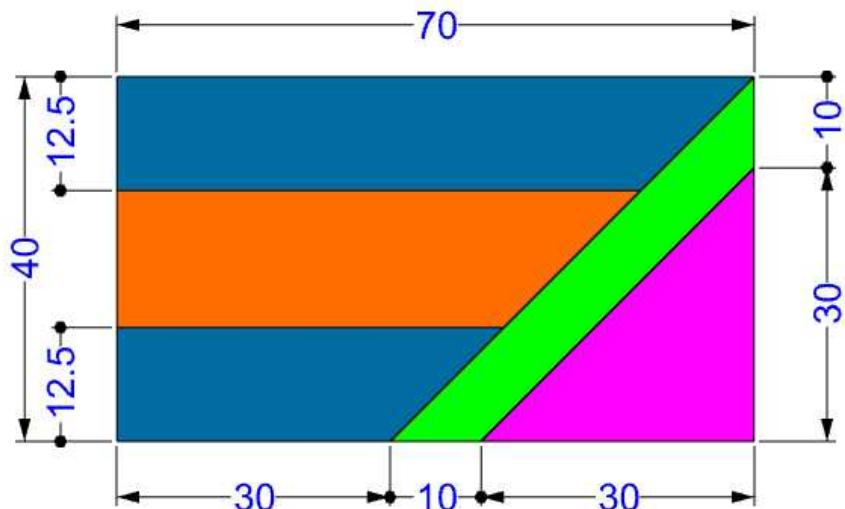
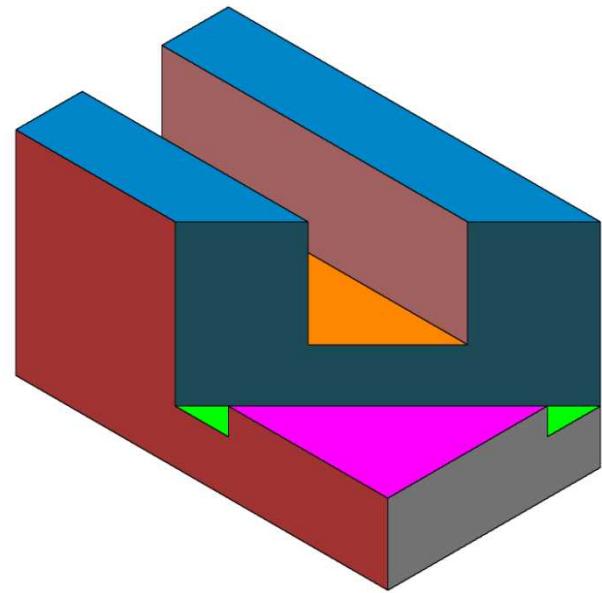
EXERCISE-61



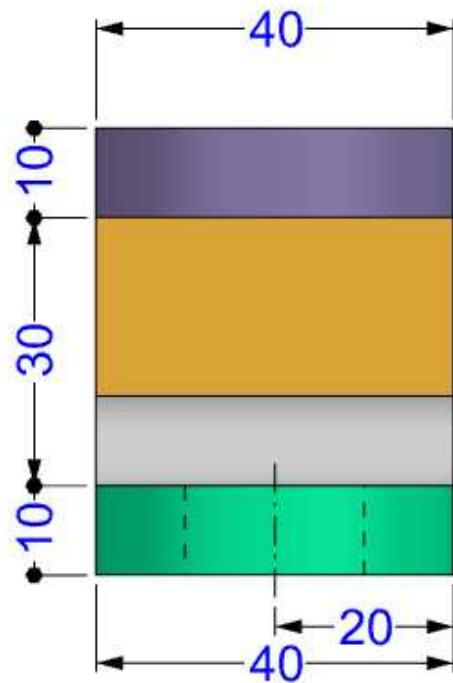
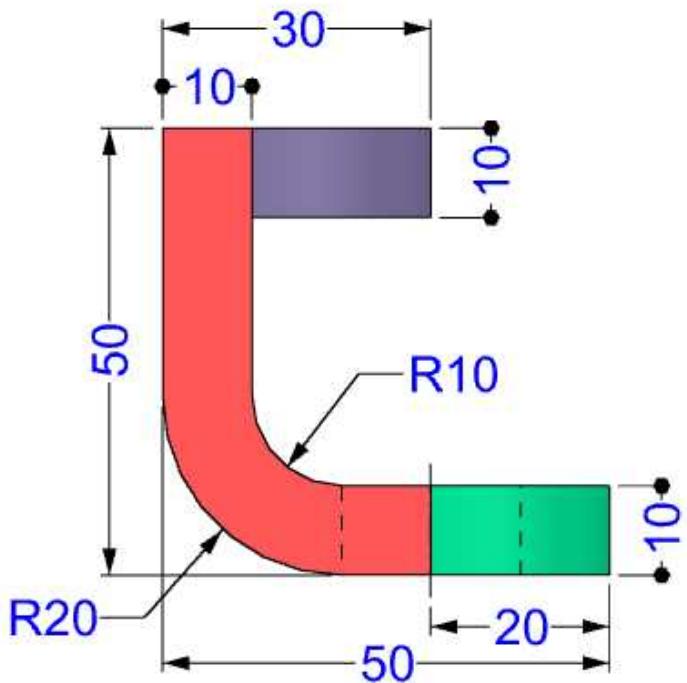
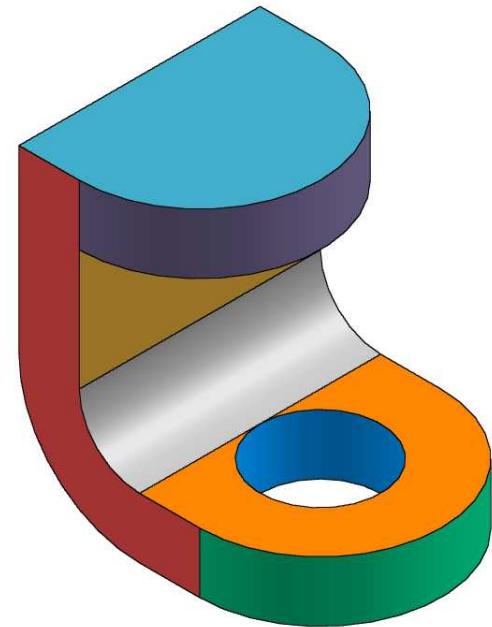
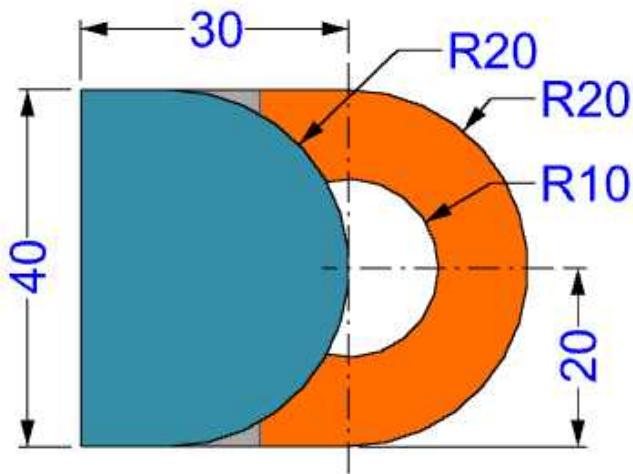
EXERCISE-62



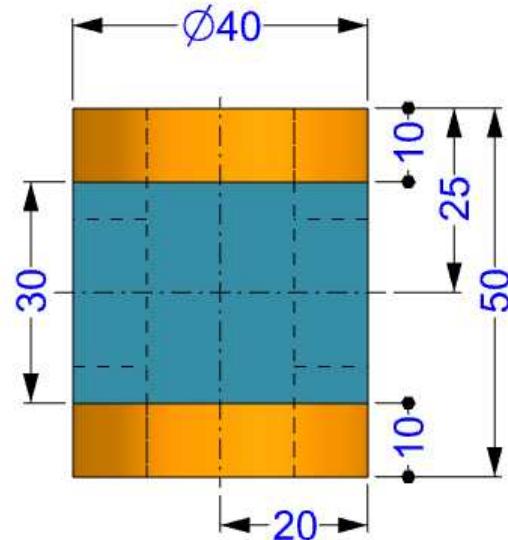
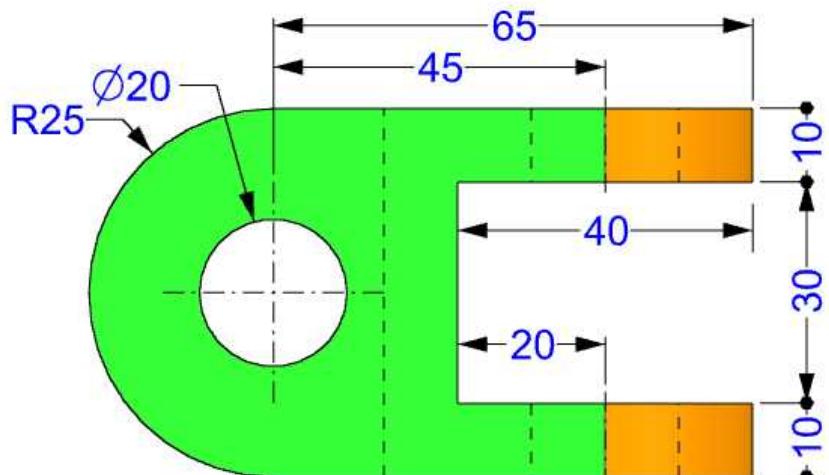
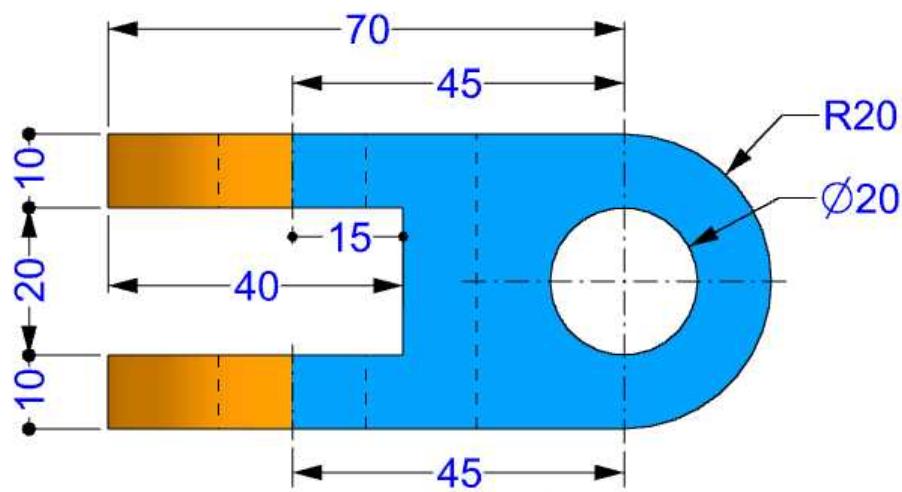
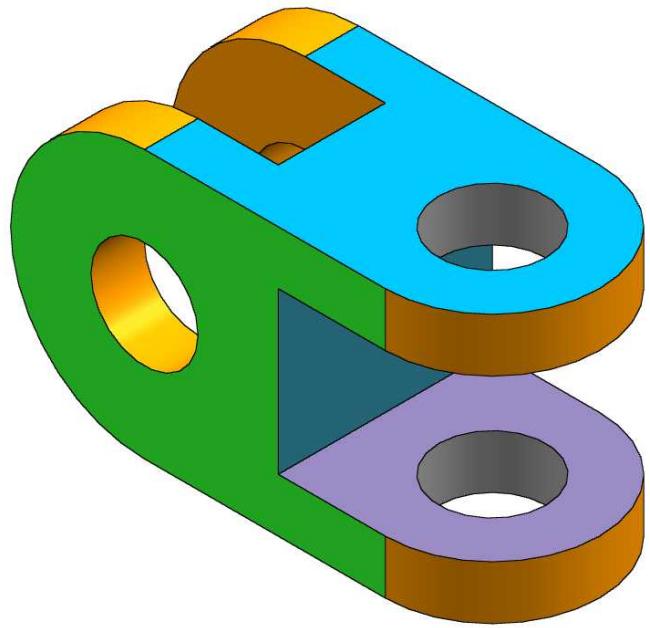
EXERCISE-63



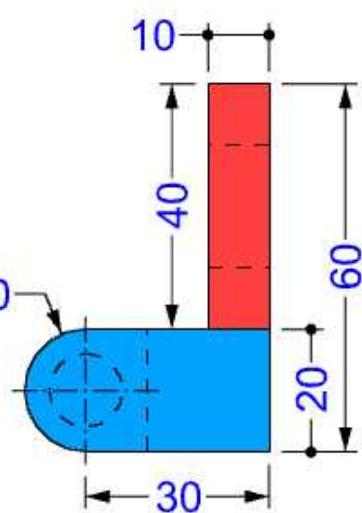
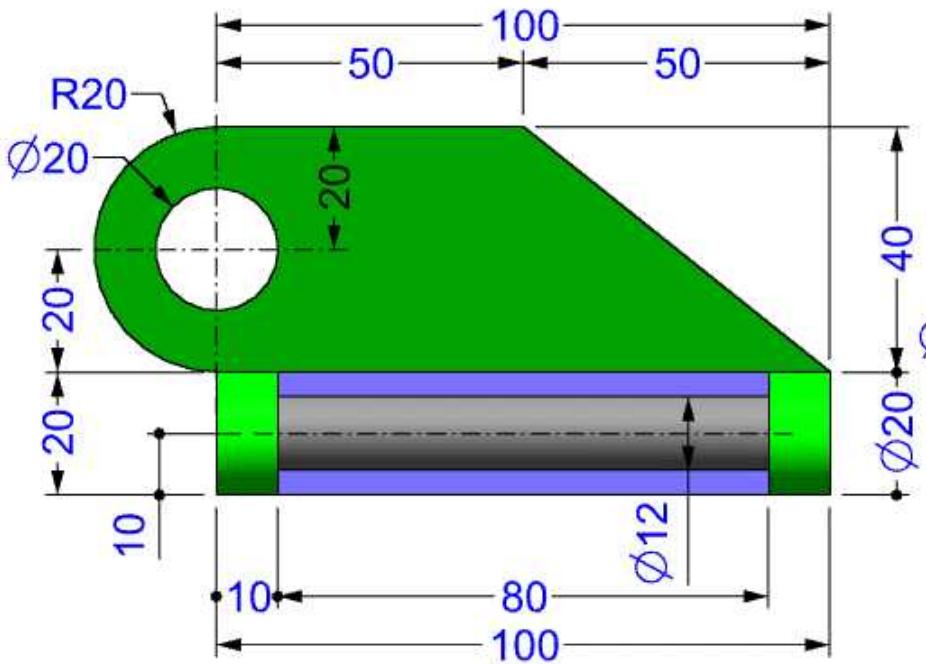
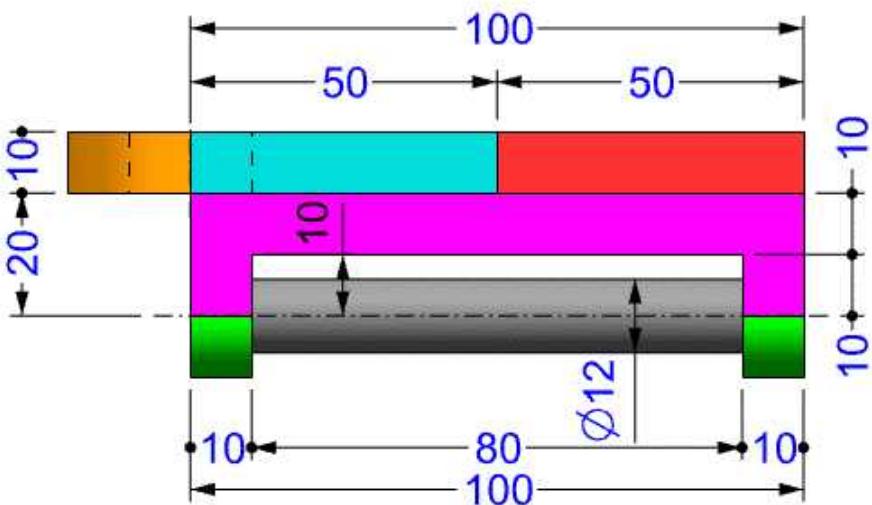
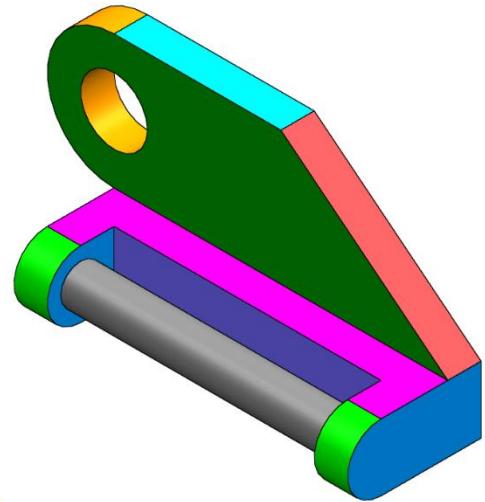
EXERCISE-64



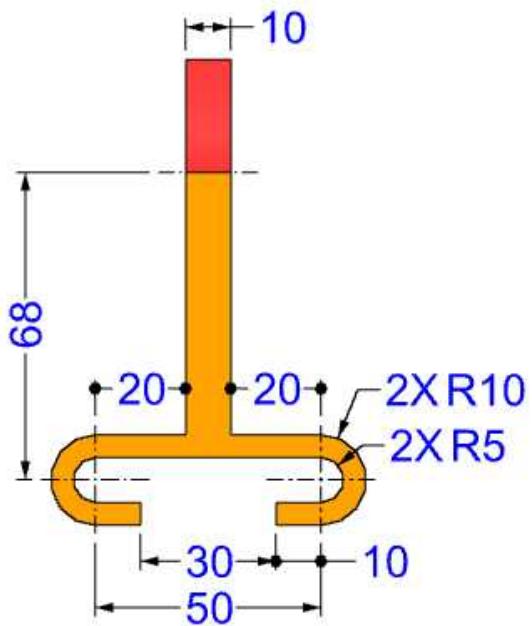
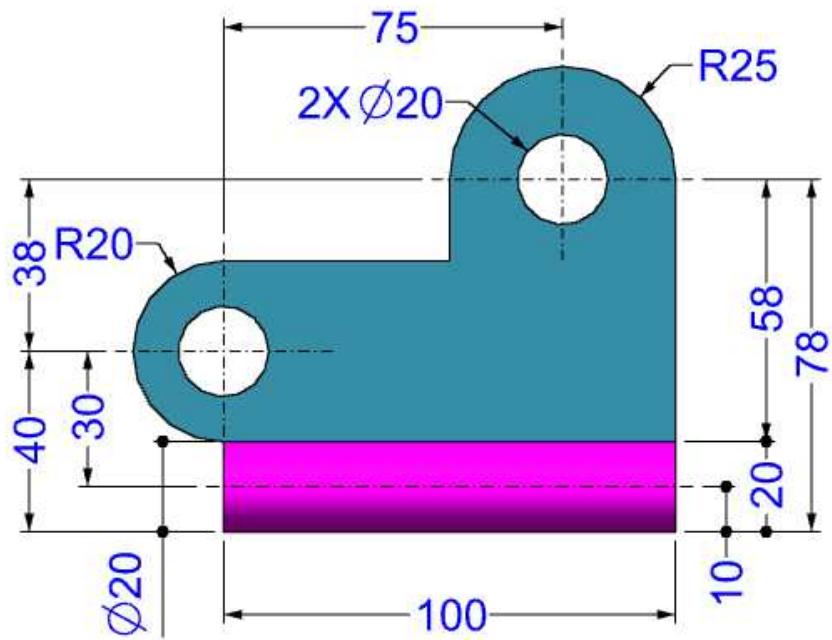
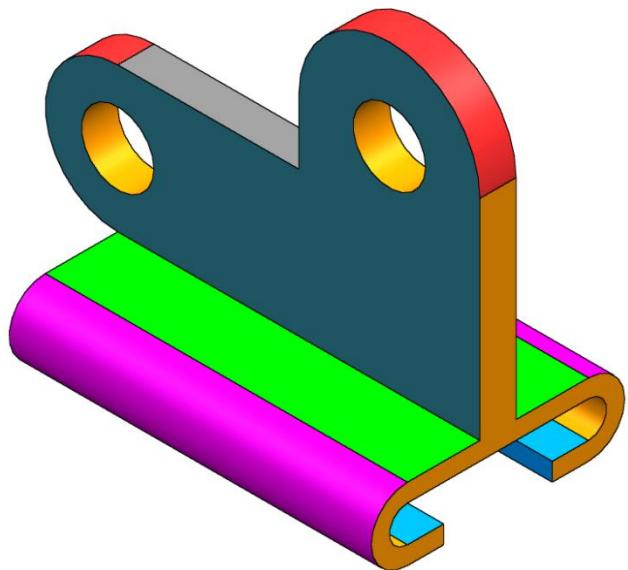
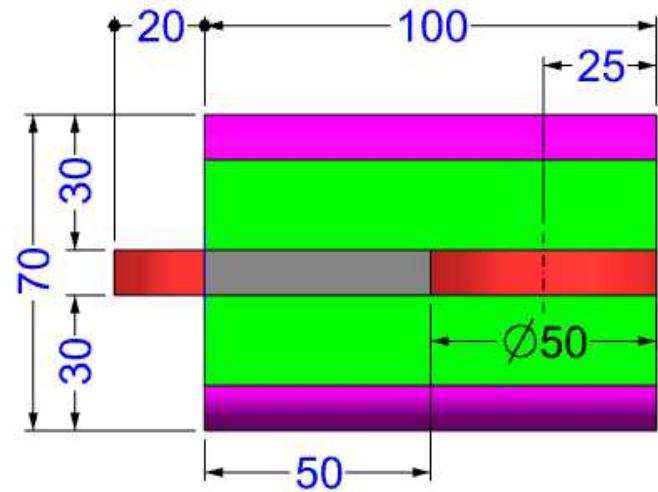
EXERCISE-65



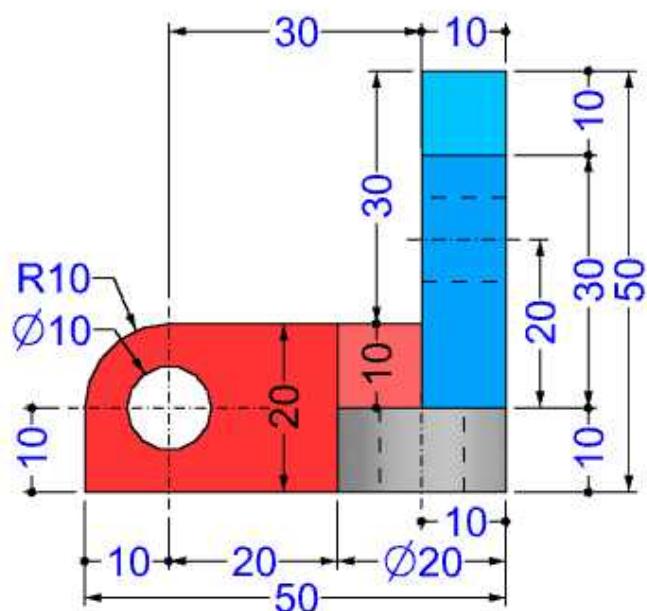
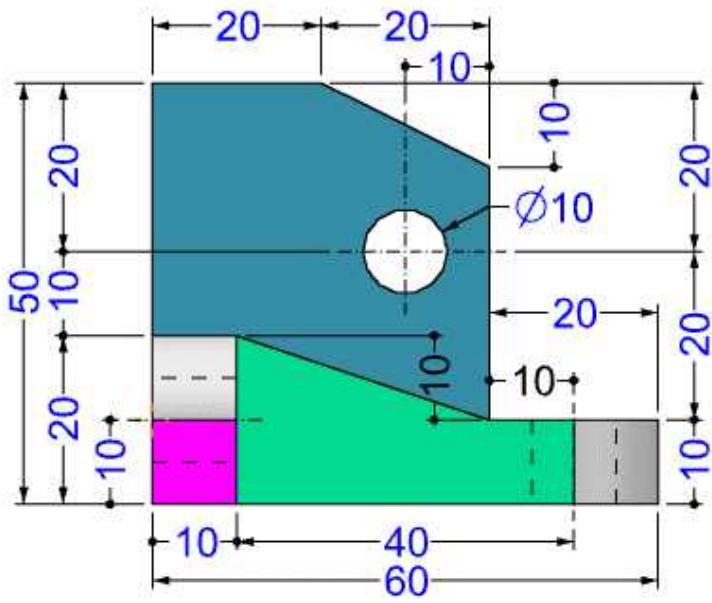
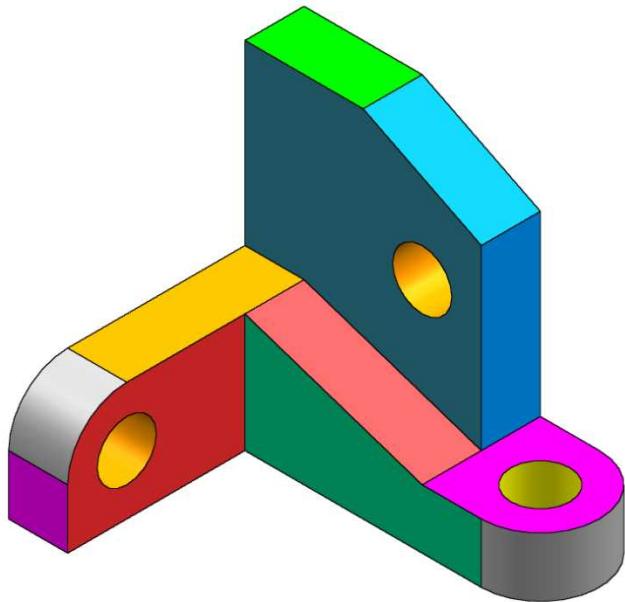
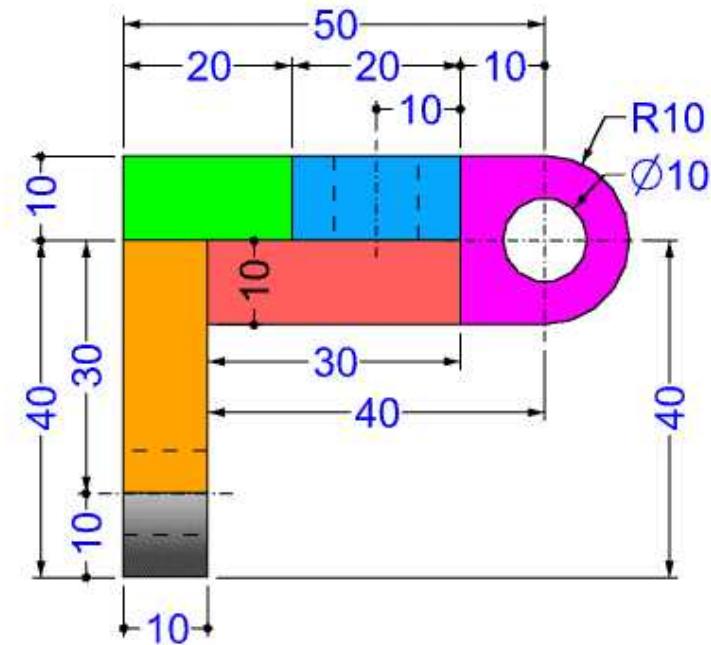
EXERCISE-66



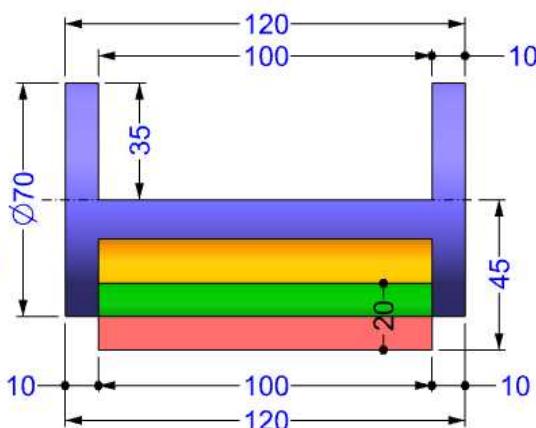
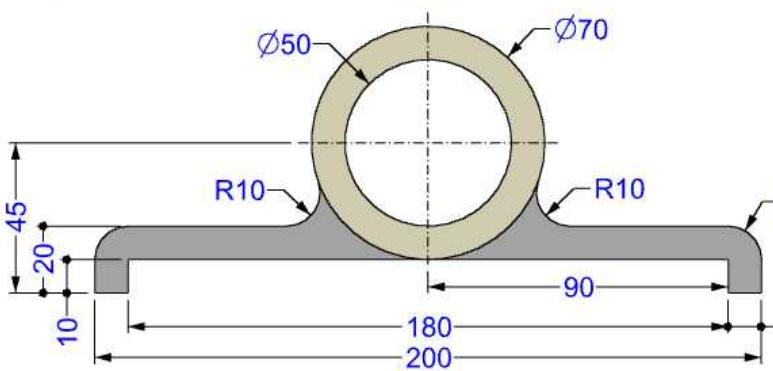
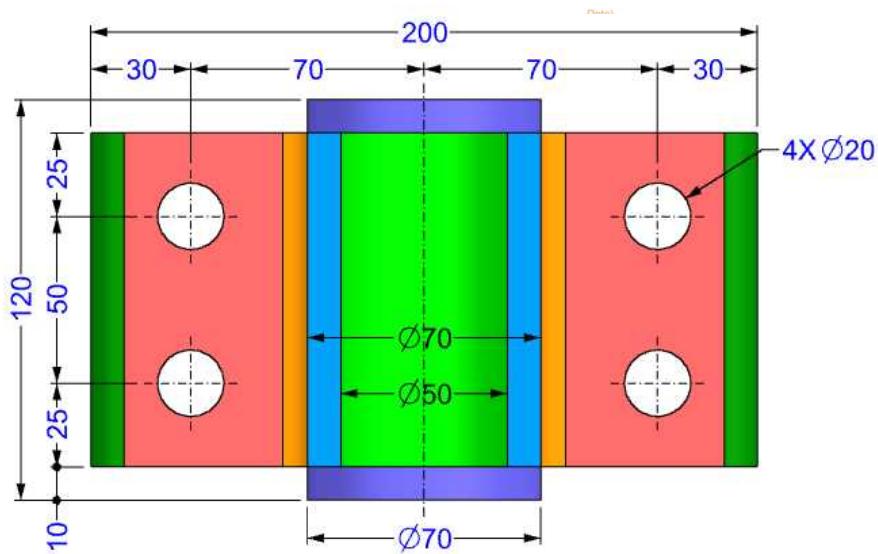
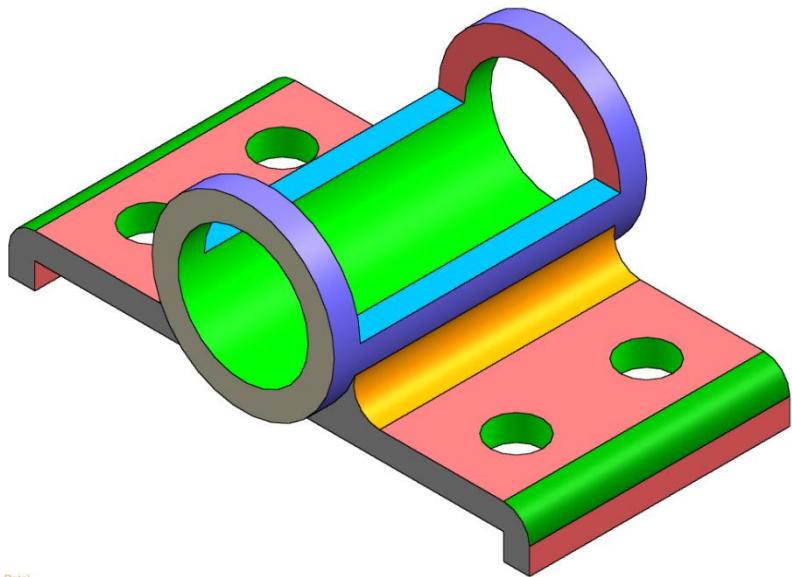
EXERCISE-67



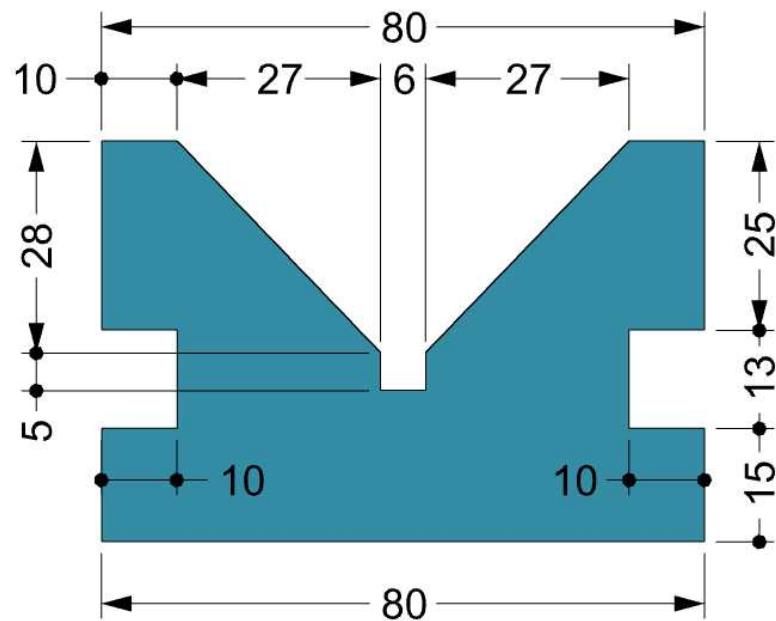
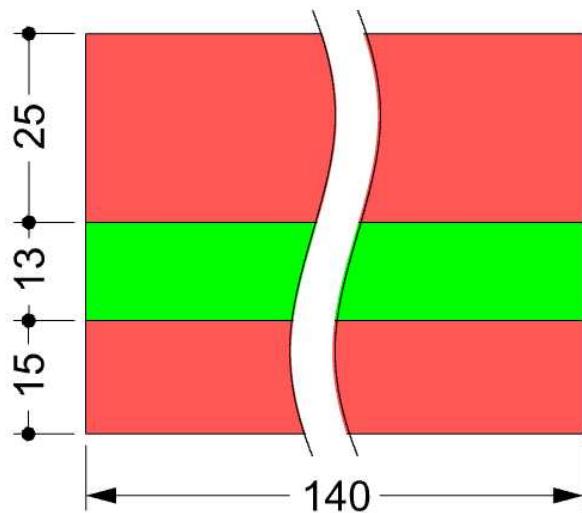
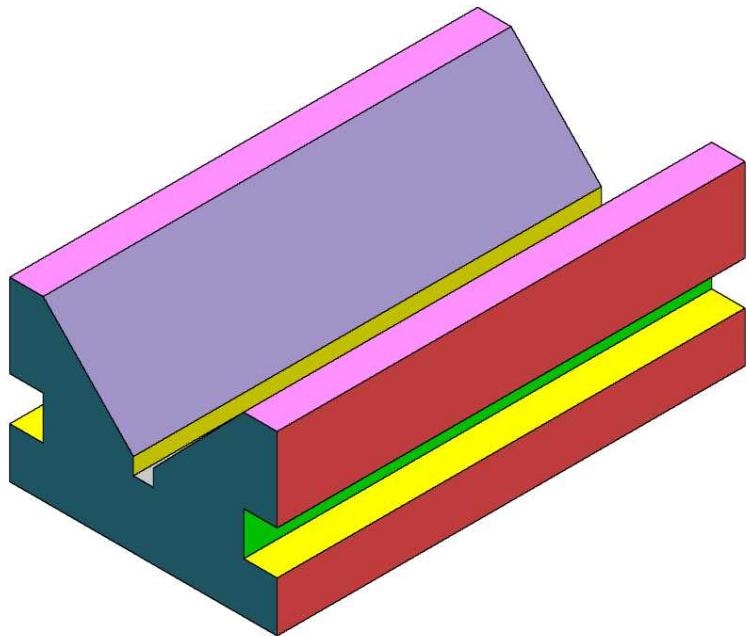
EXERCISE-68



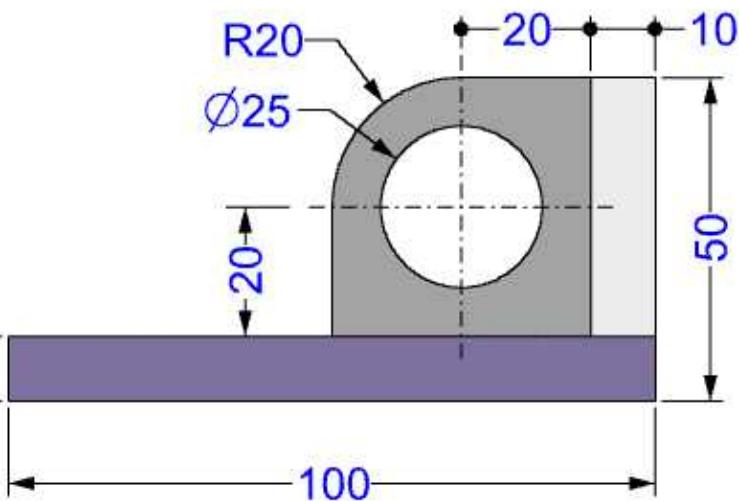
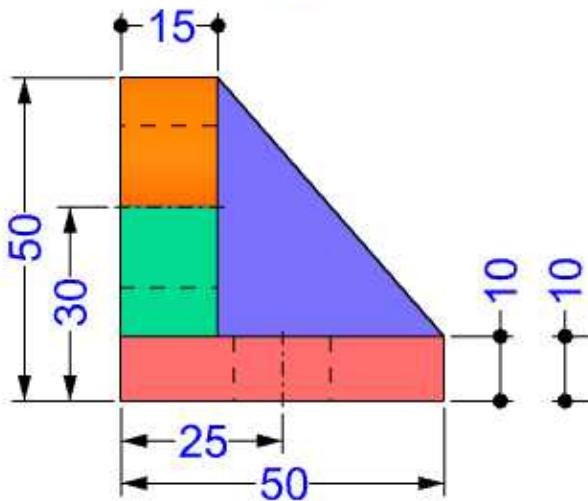
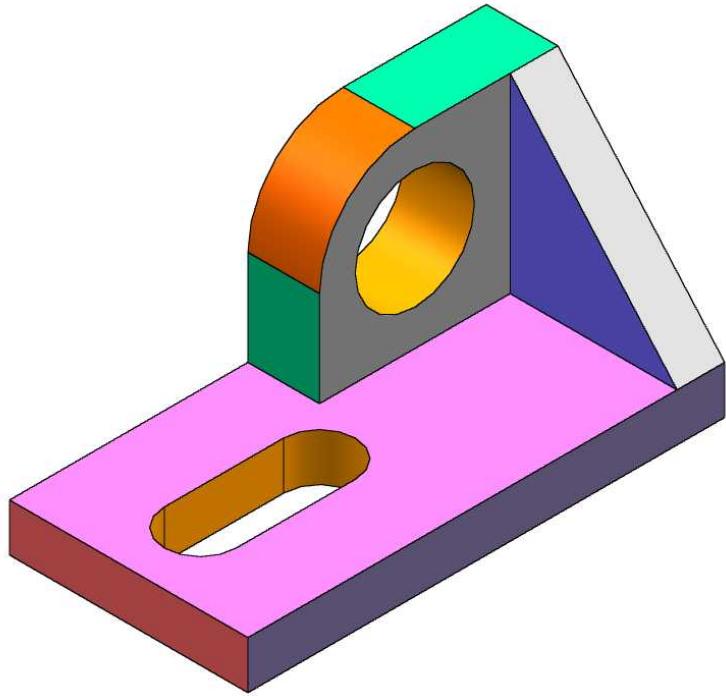
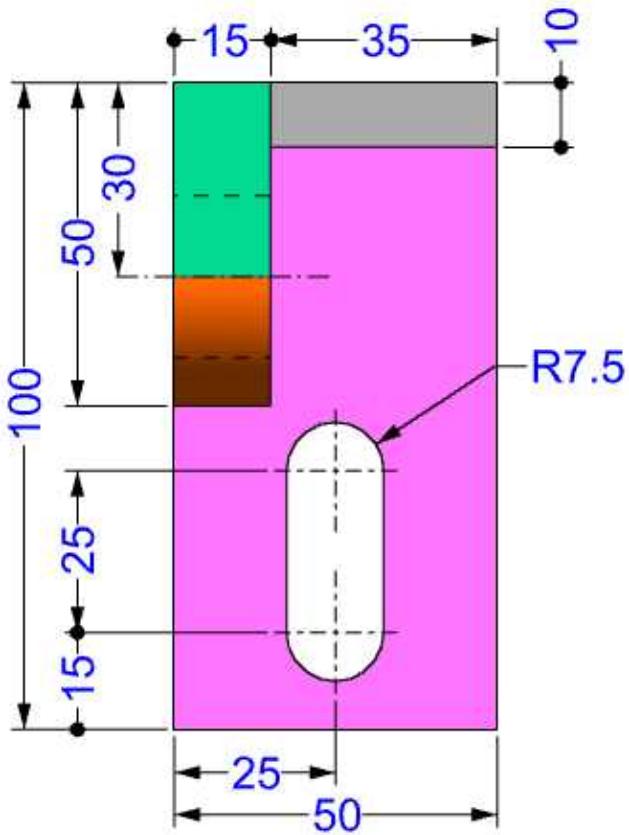
EXERCISE-69



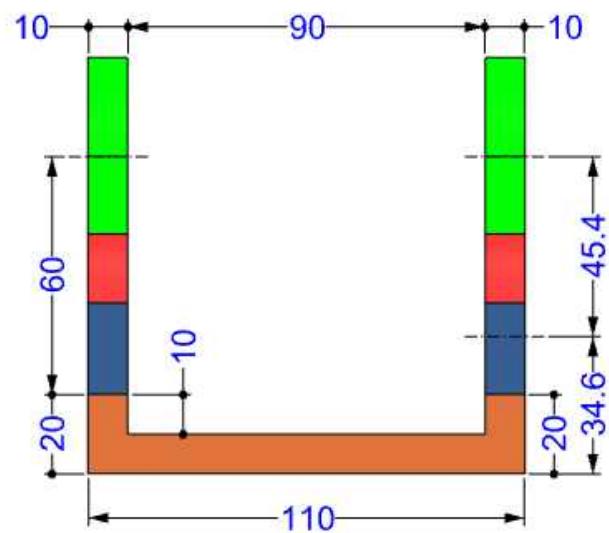
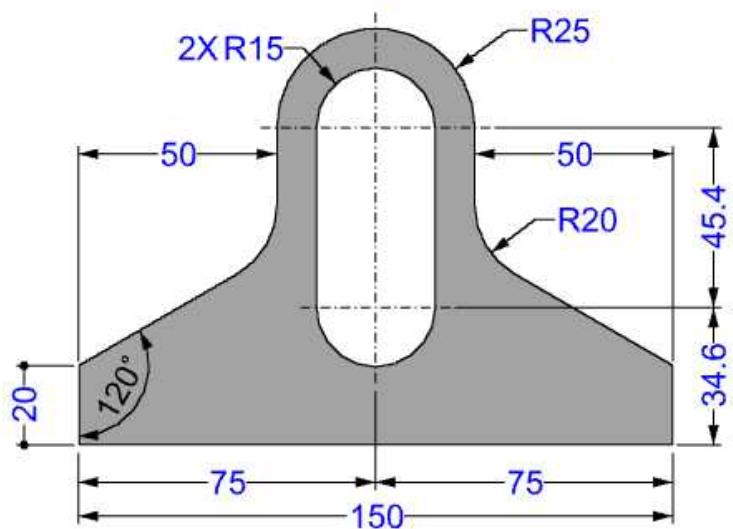
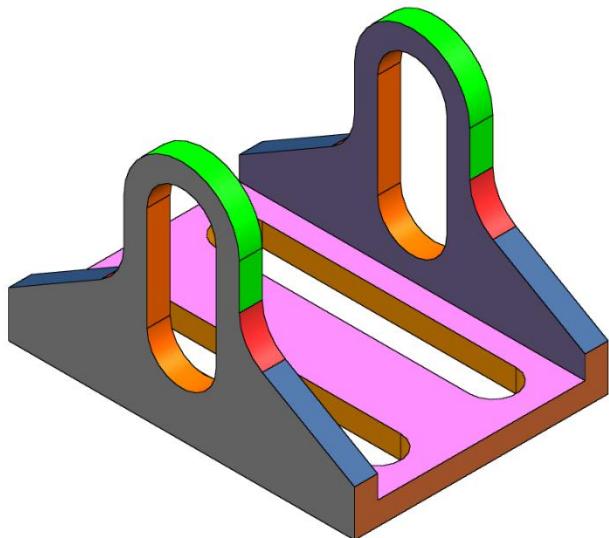
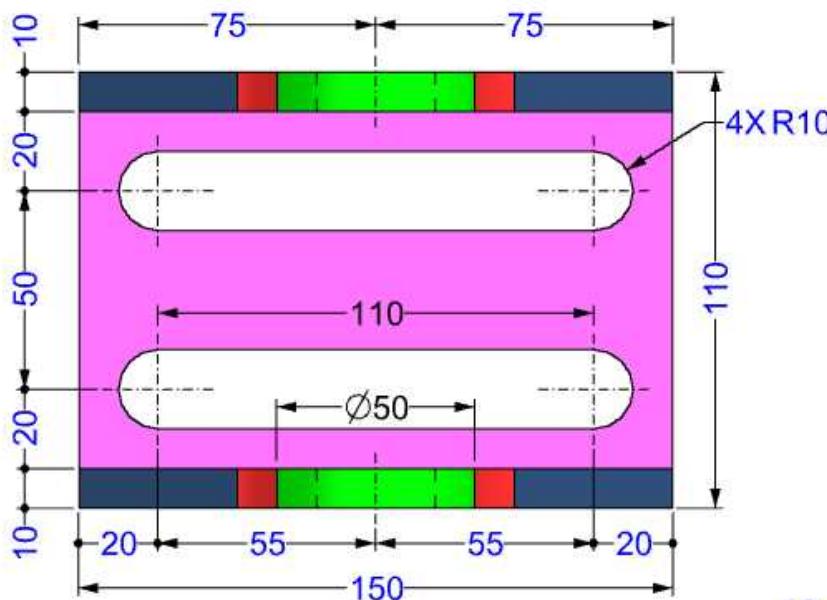
EXERCISE-70



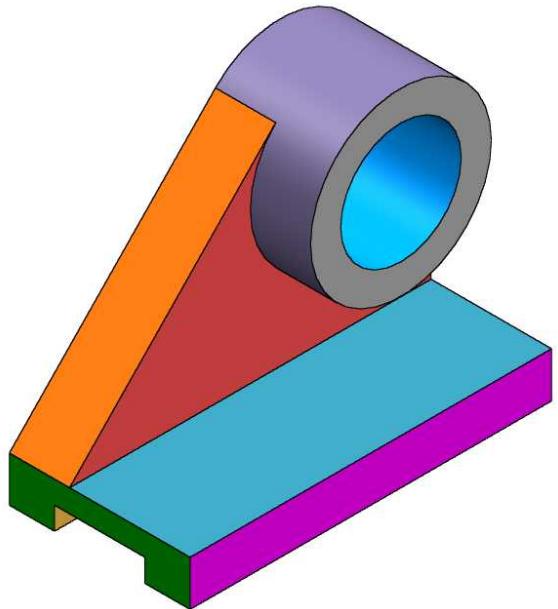
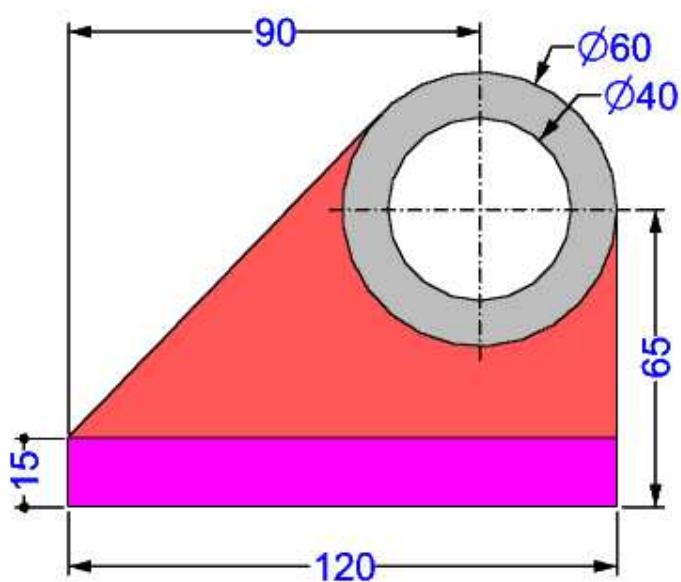
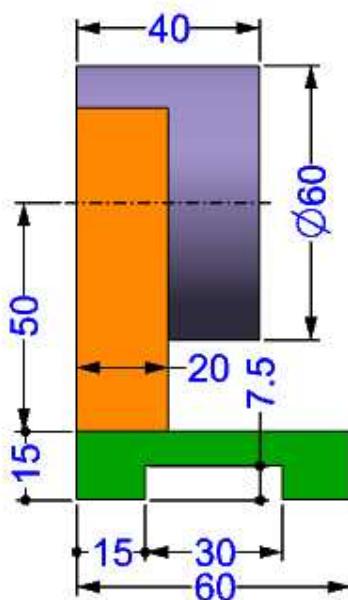
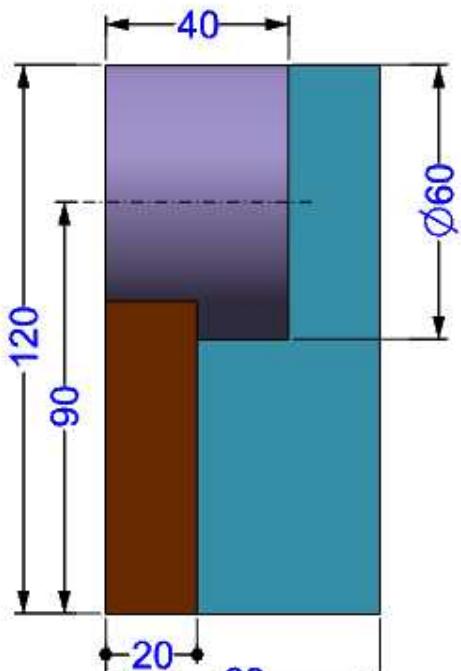
EXERCISE-71



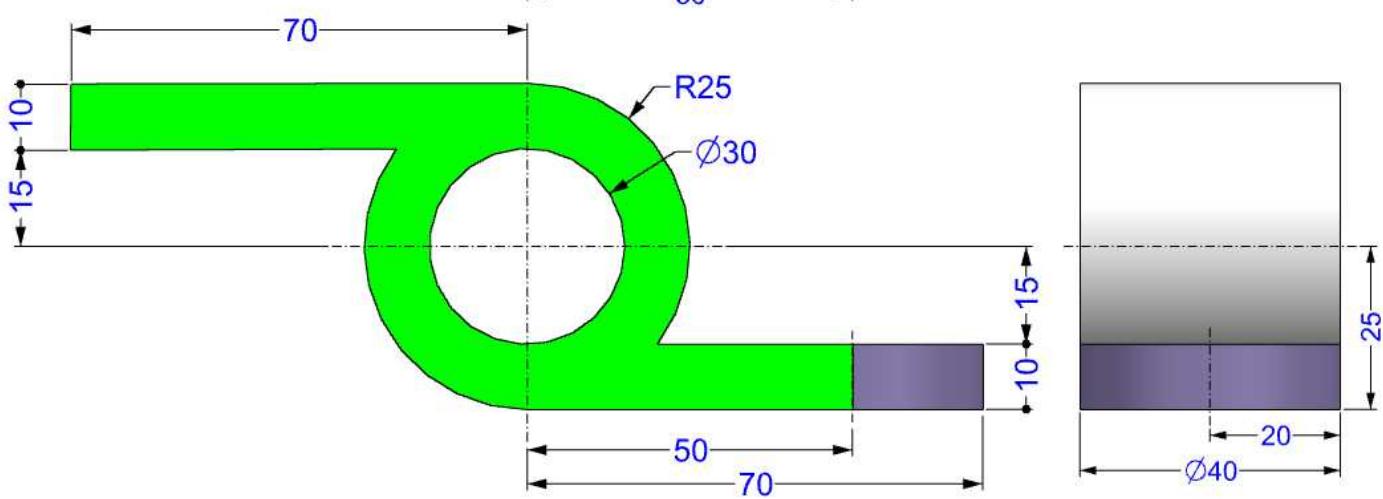
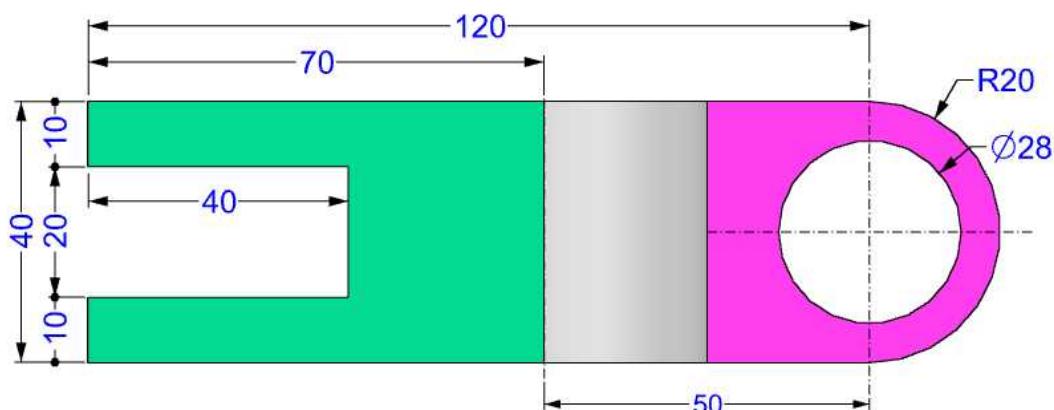
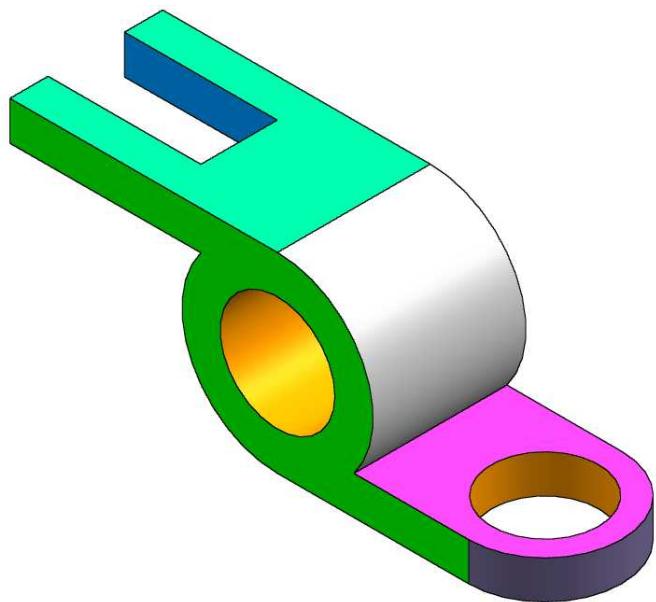
EXERCISE-72

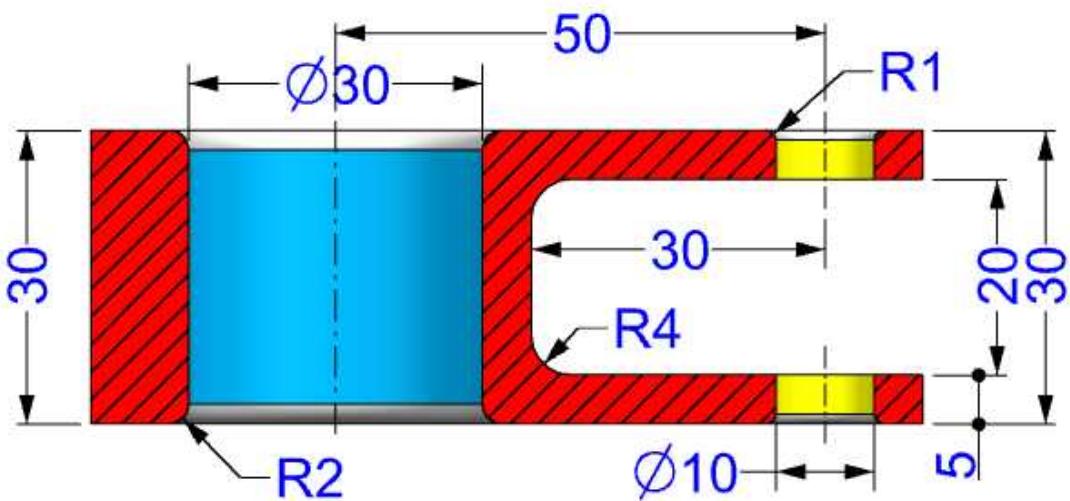
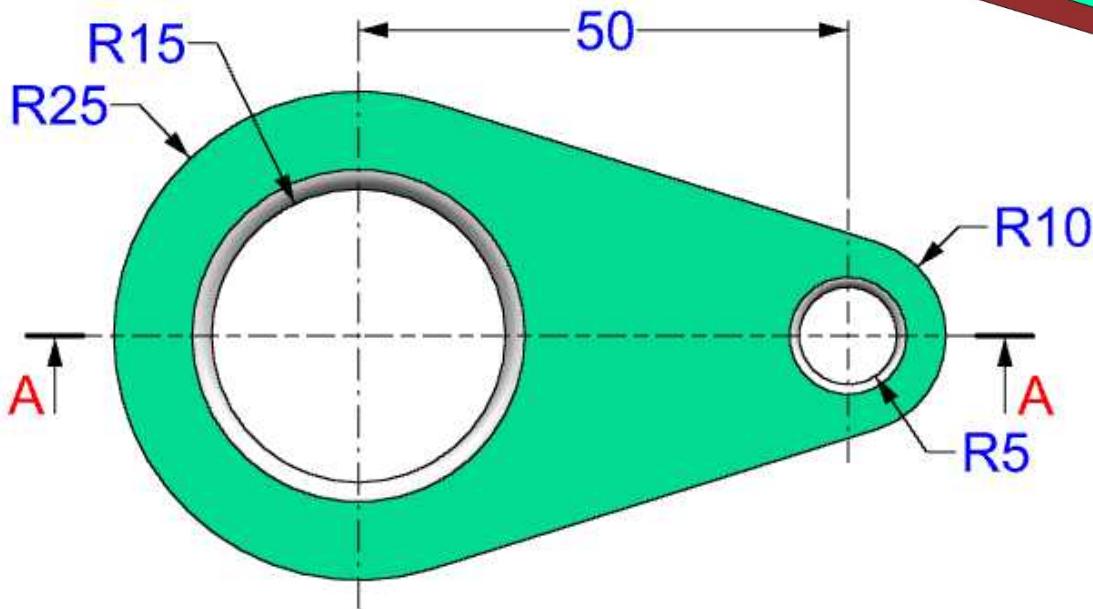
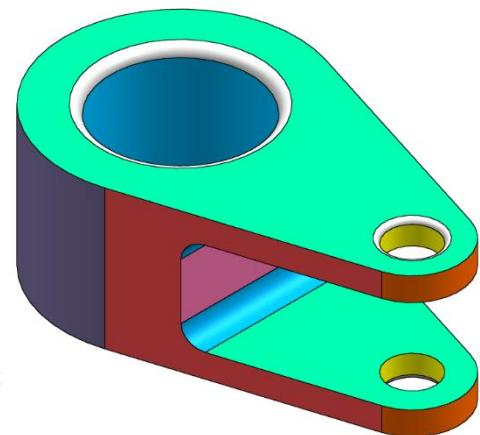


EXERCISE-73

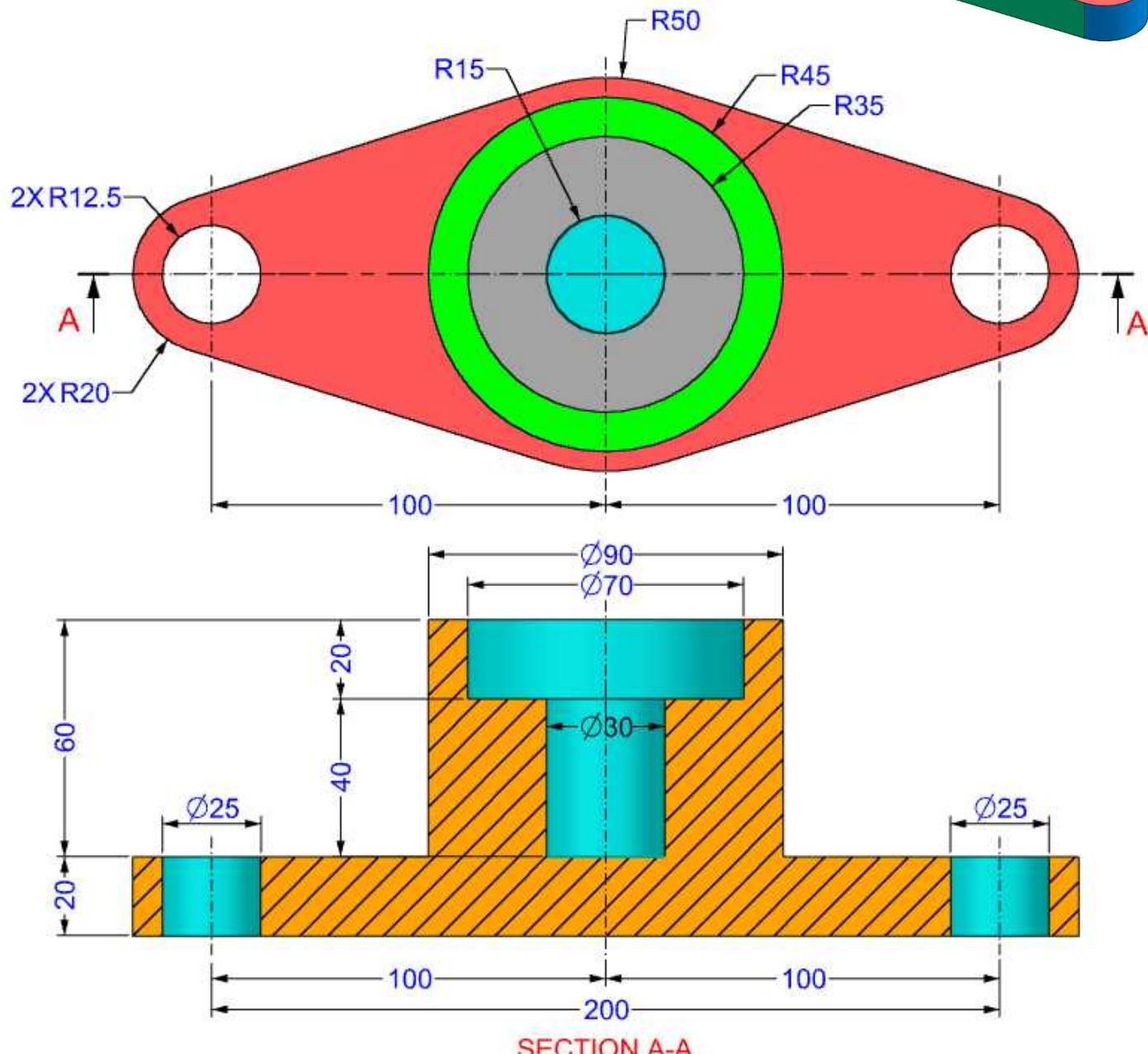
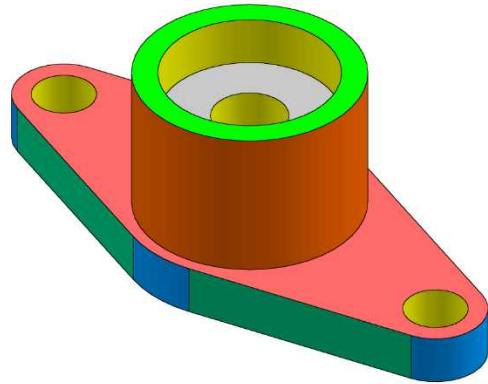


EXERCISE-74

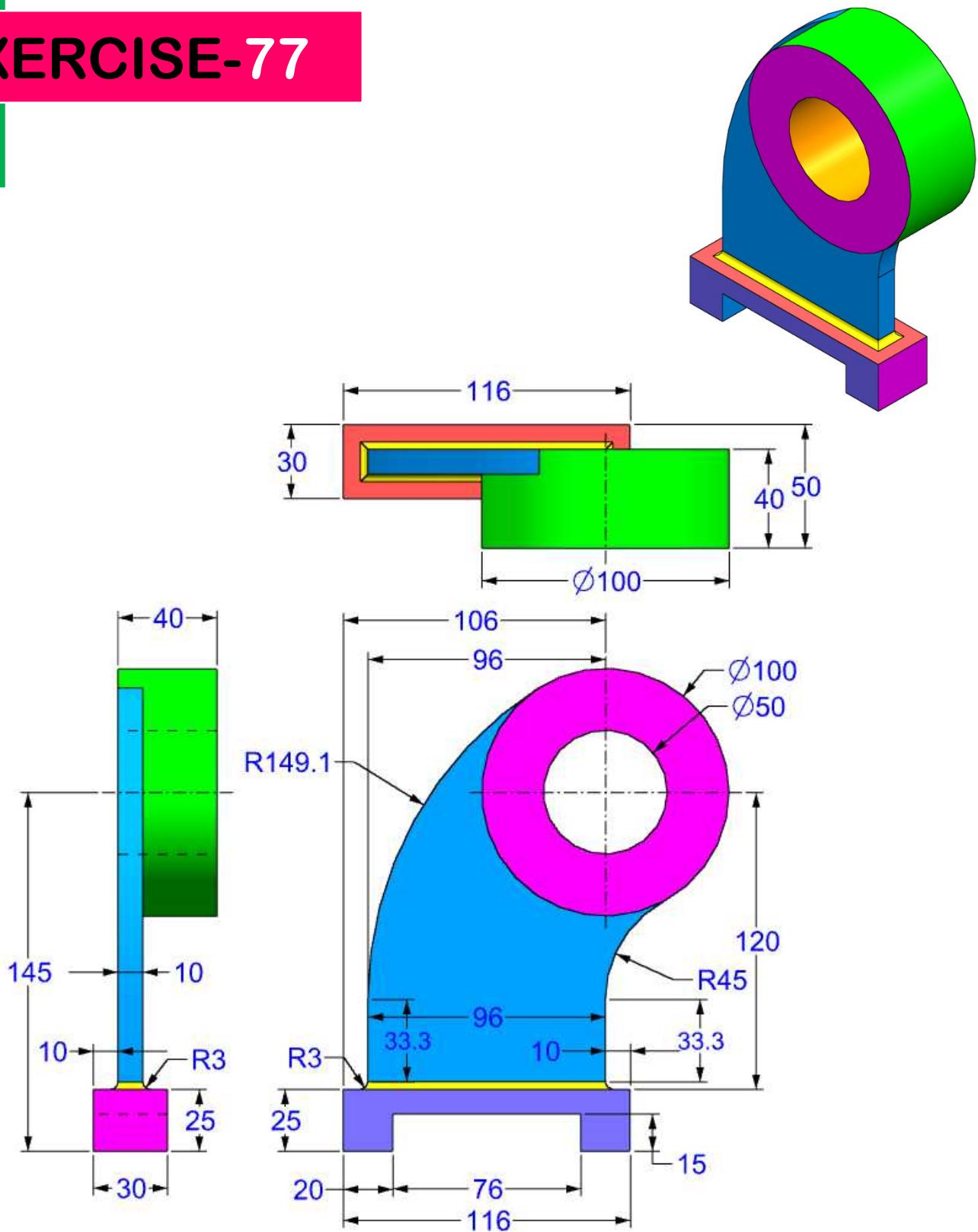


EXERCISE-75**SECTION A-A**

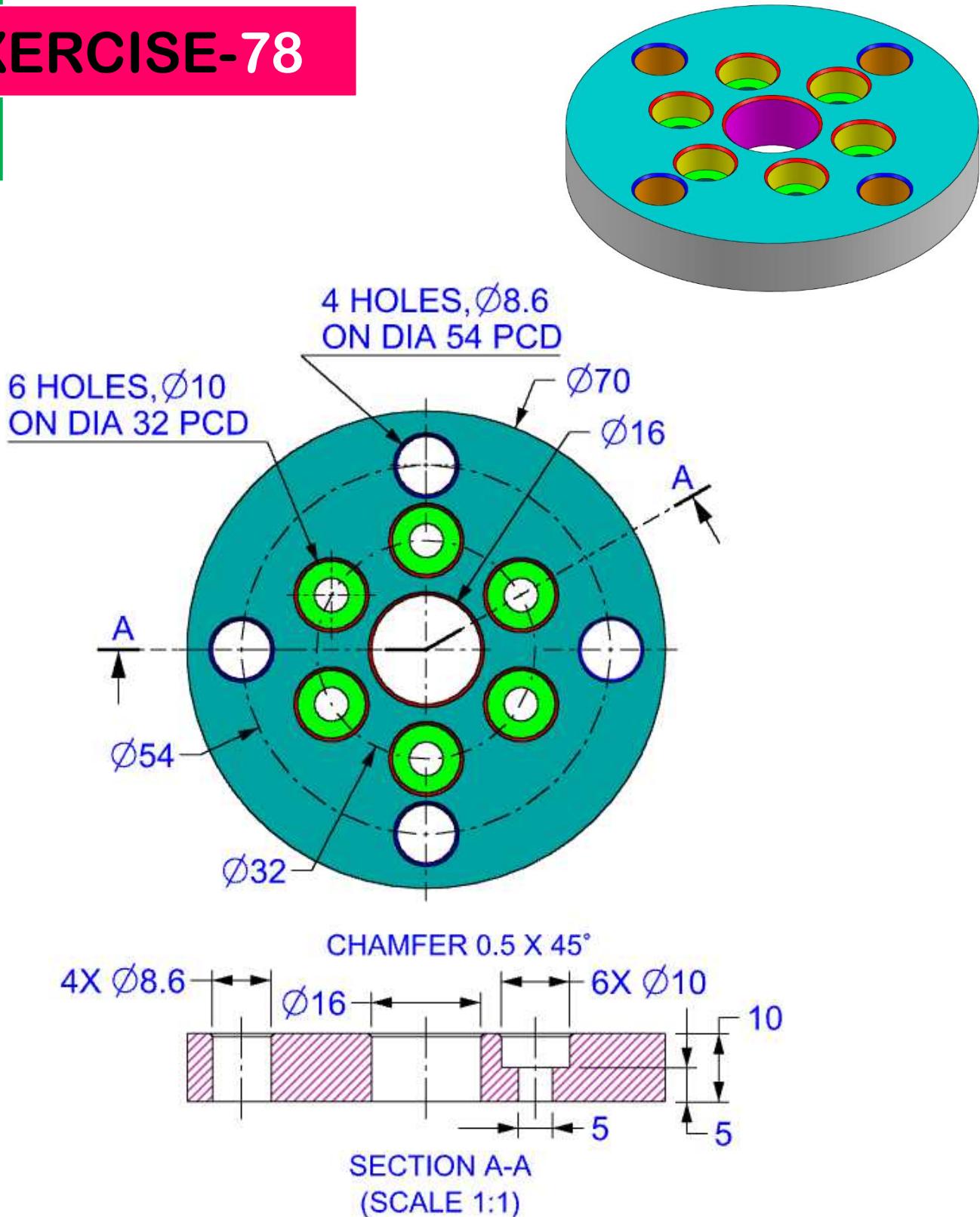
EXERCISE-76



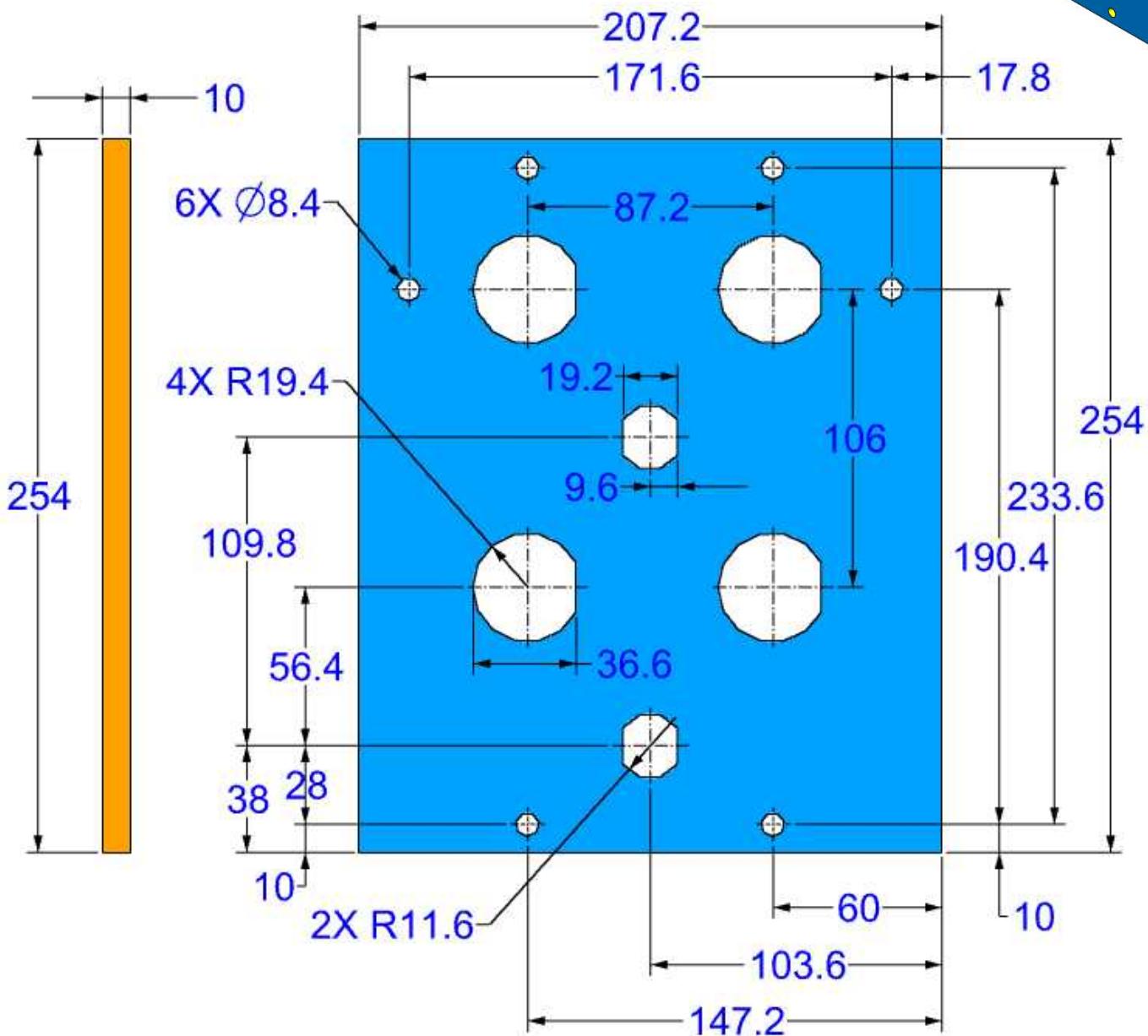
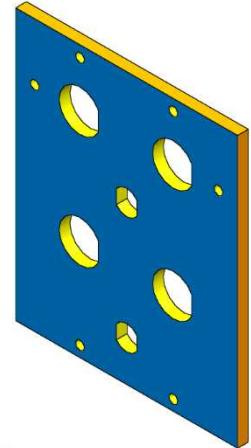
EXERCISE-77



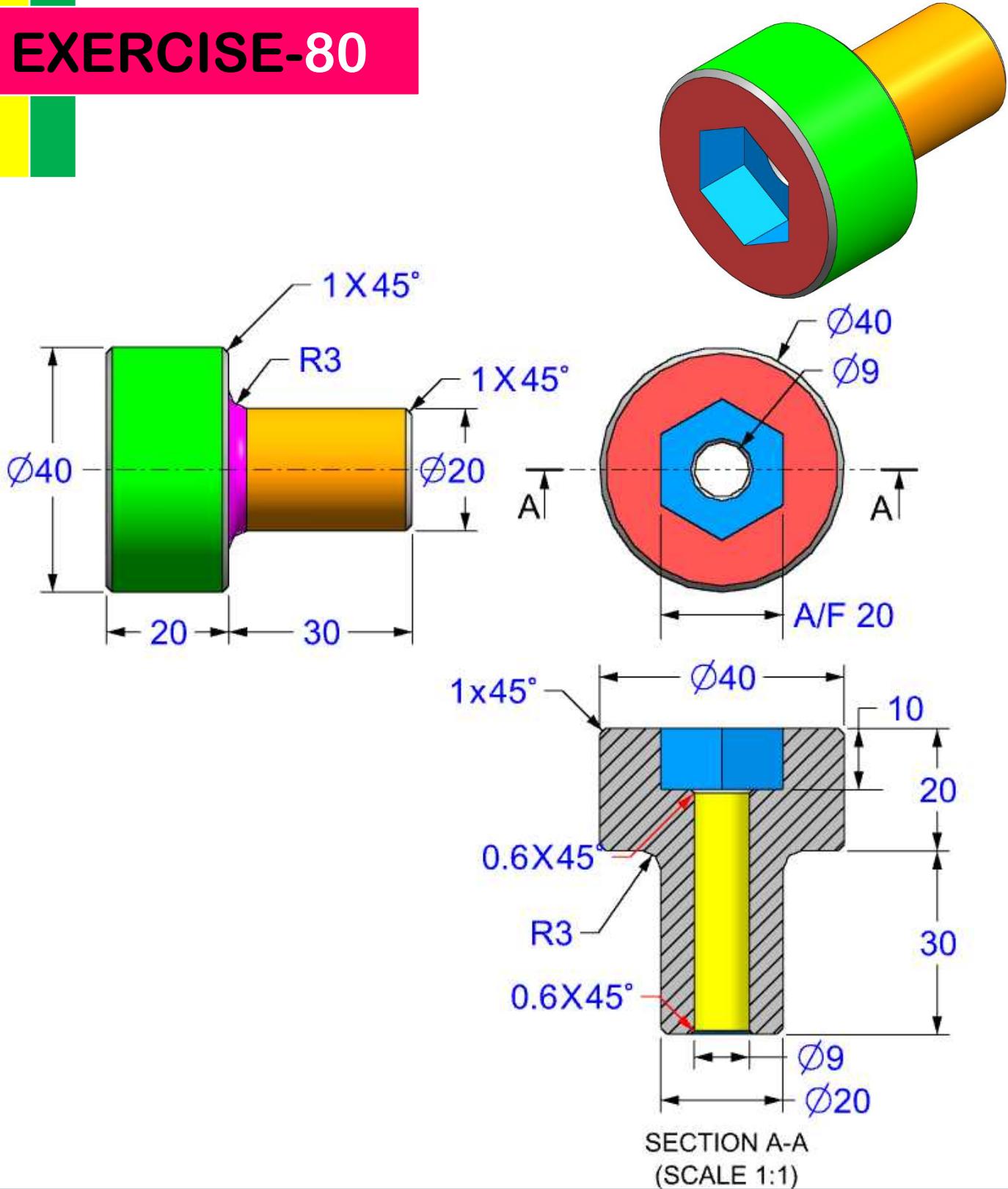
EXERCISE-78



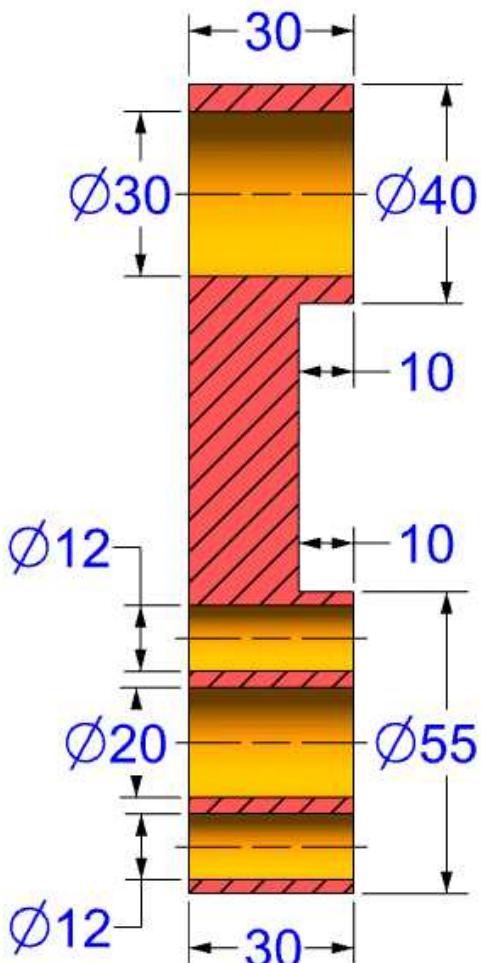
EXERCISE-79



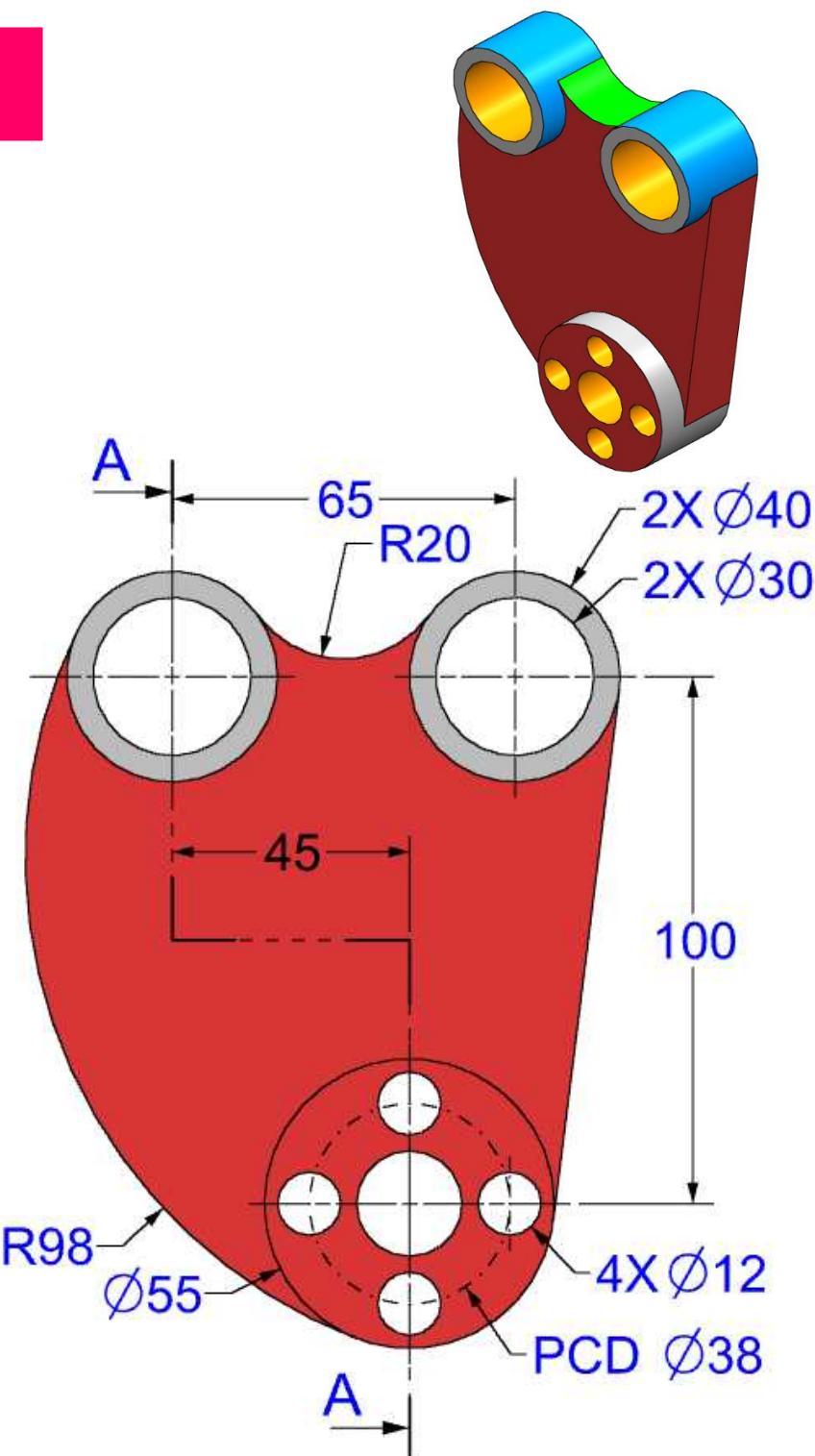
EXERCISE-80



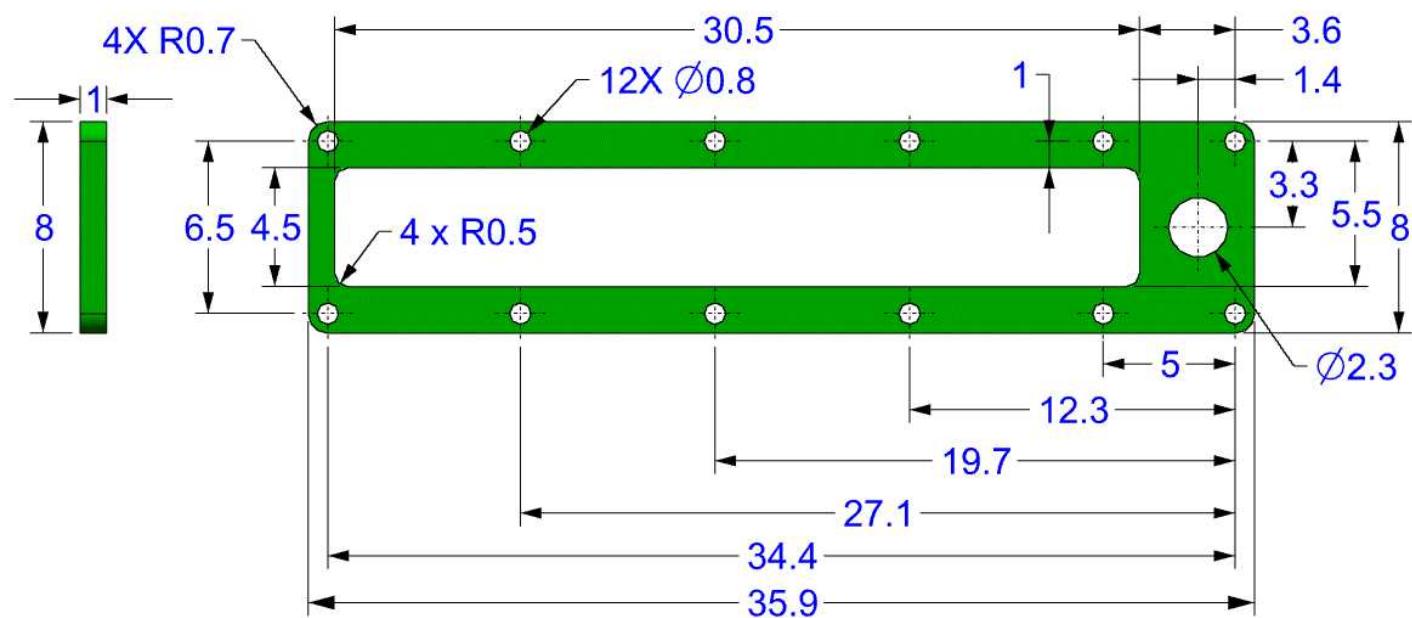
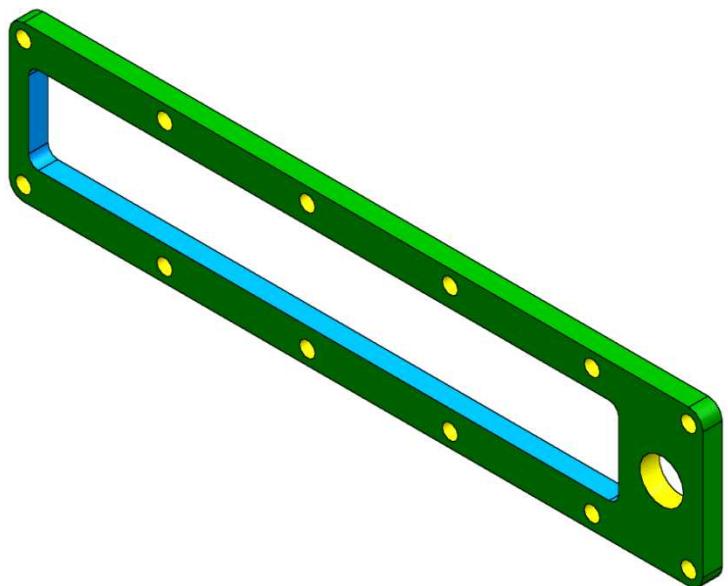
EXERCISE-81



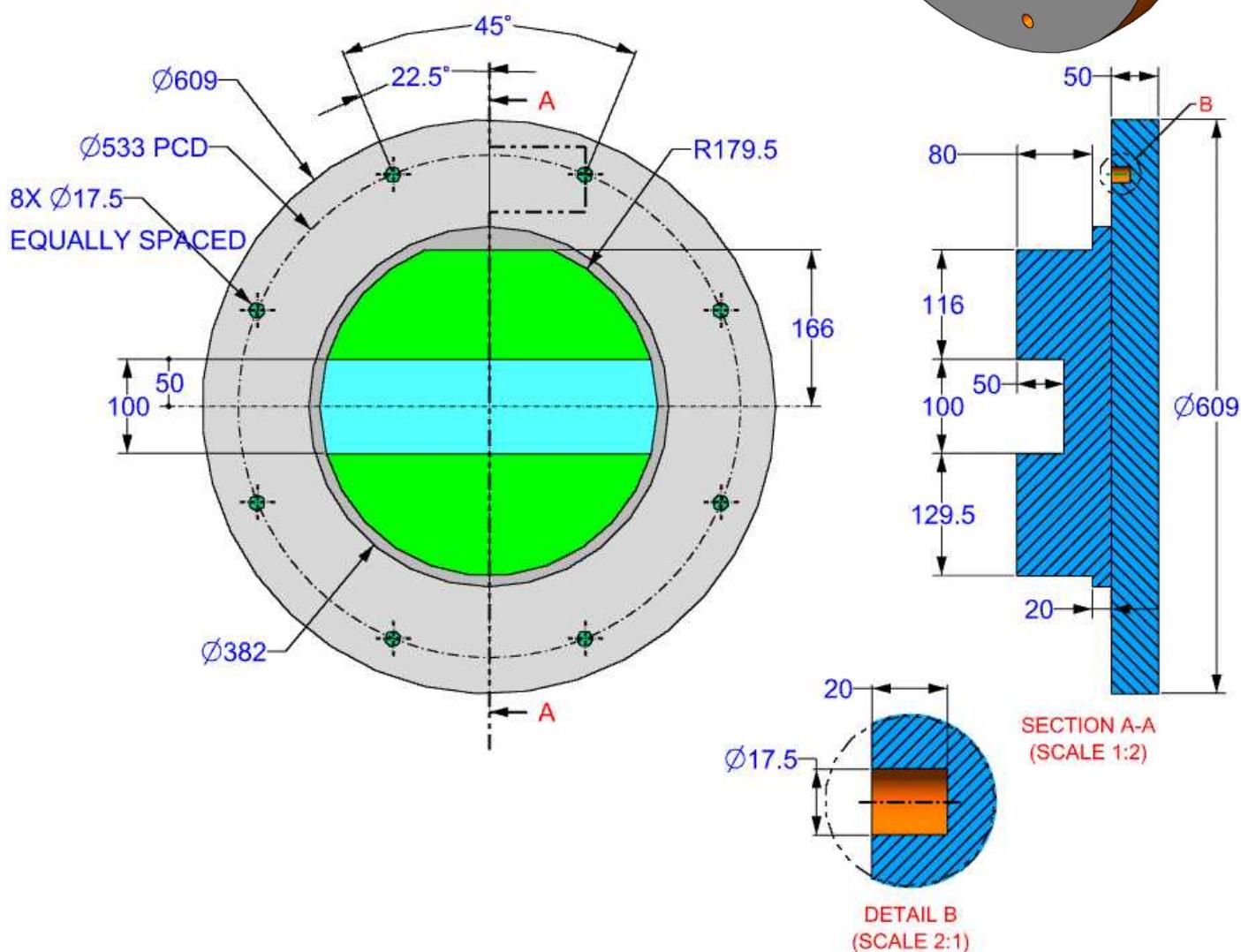
SECTION A-A
(SCALE 1:1)



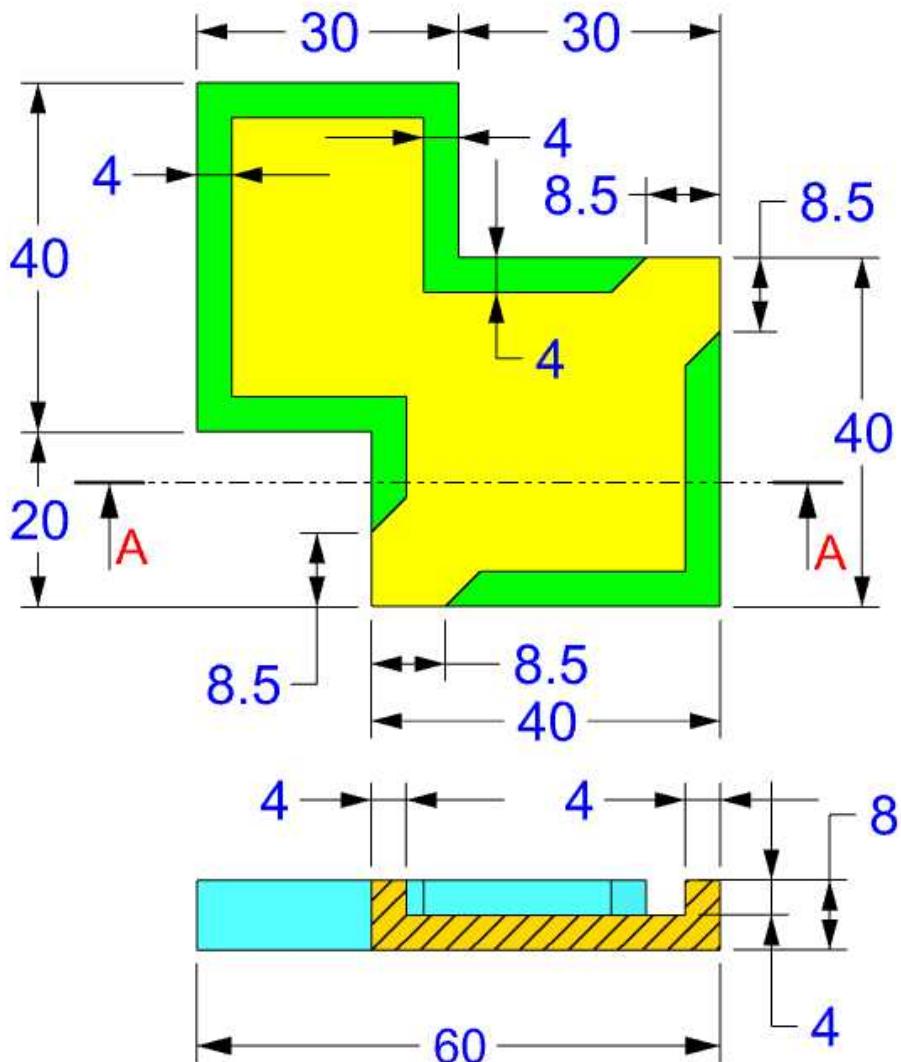
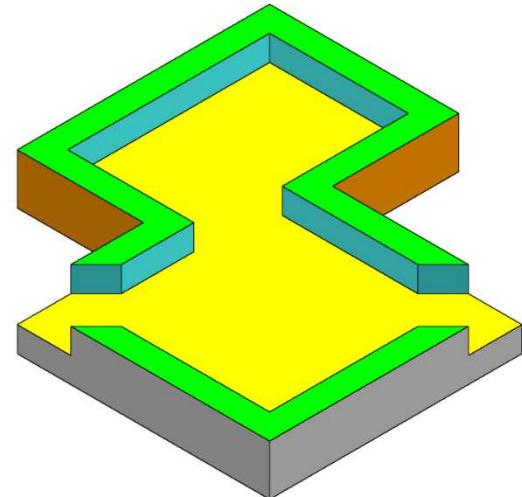
EXERCISE-82



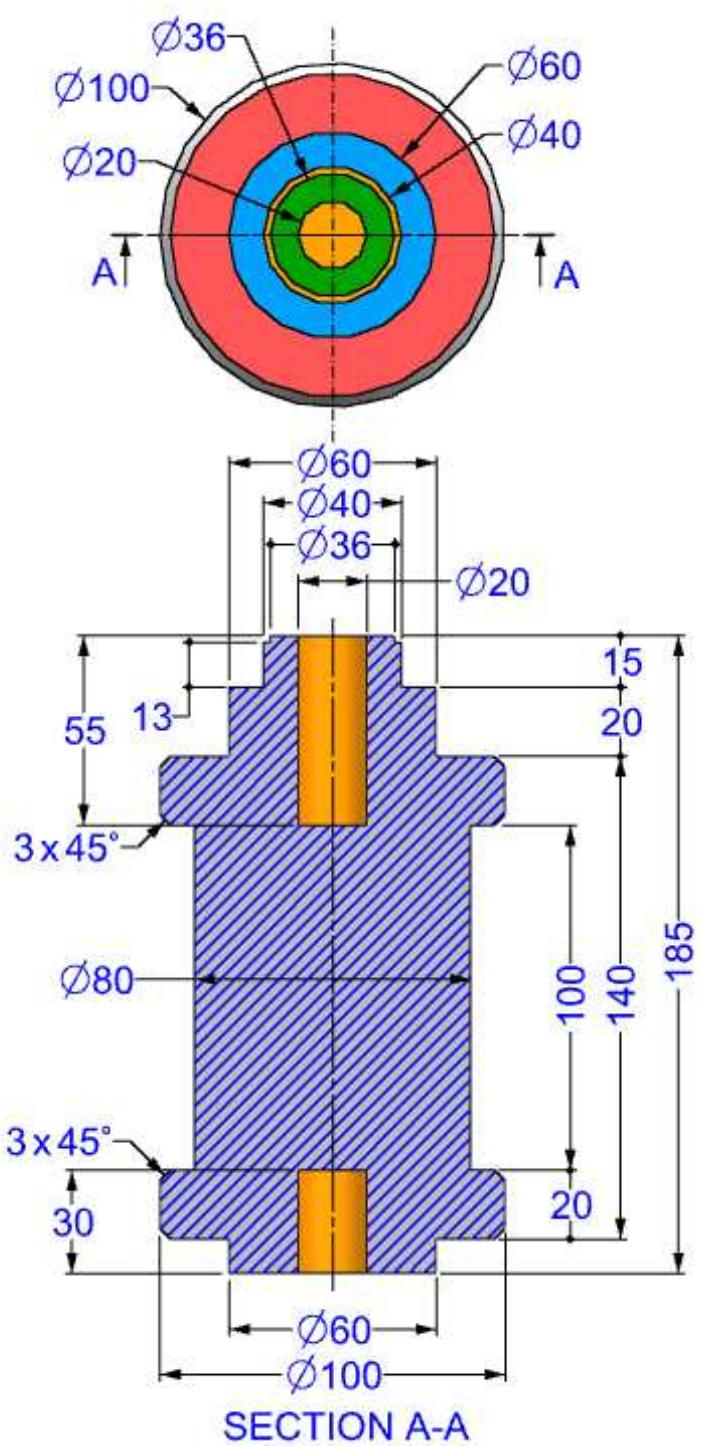
EXERCISE-83



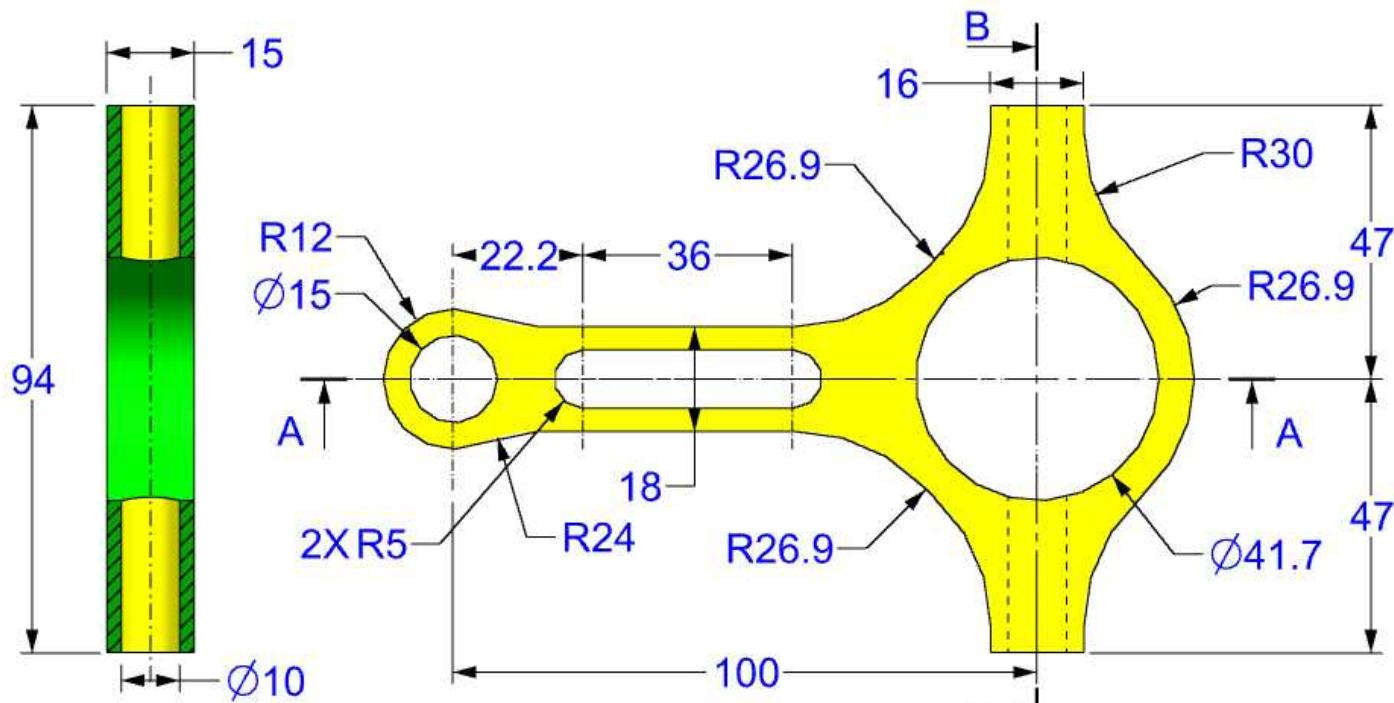
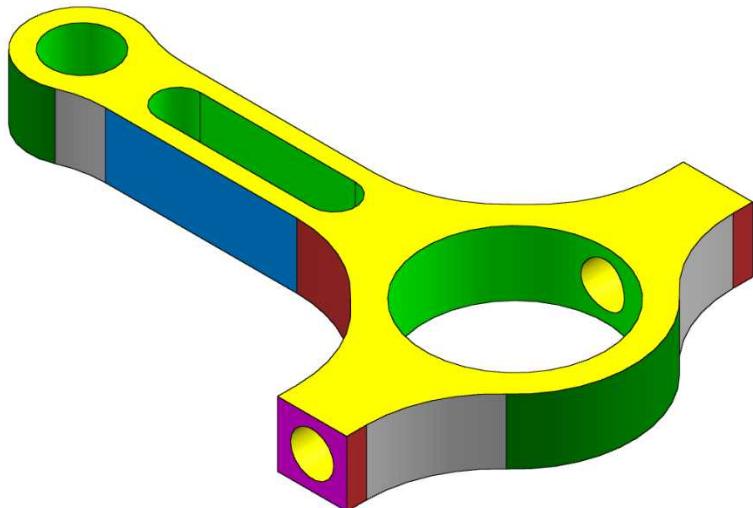
EXERCISE-84



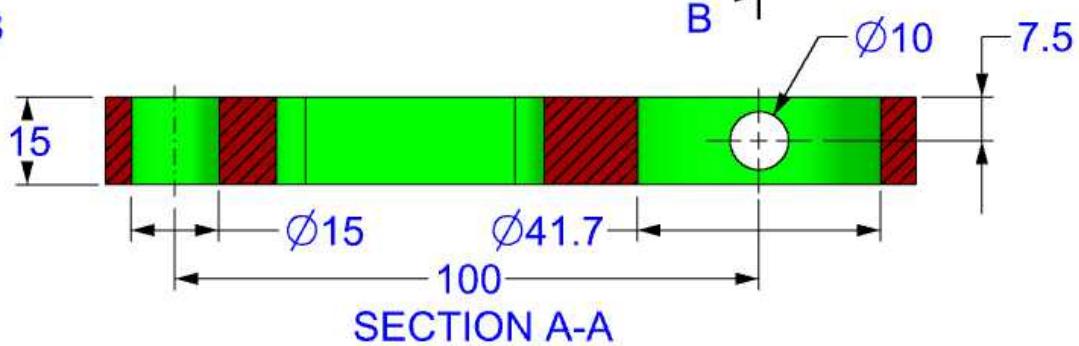
SECTION A-A
(SCALE 1:1)

EXERCISE-85

EXERCISE-86

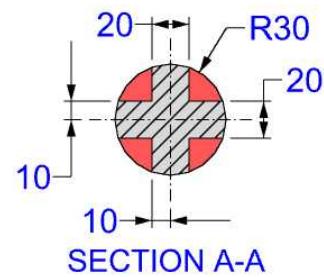
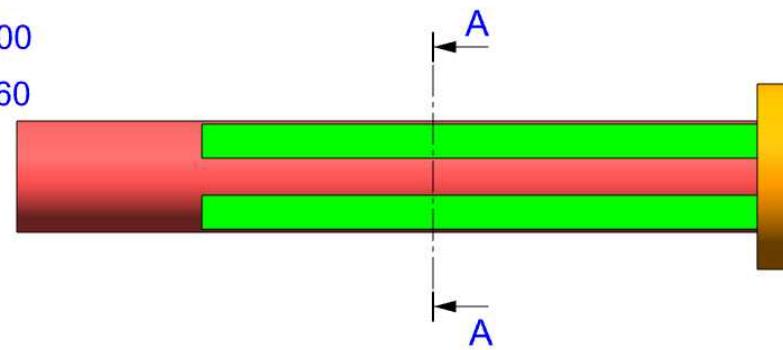
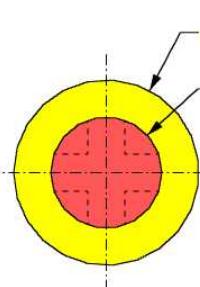
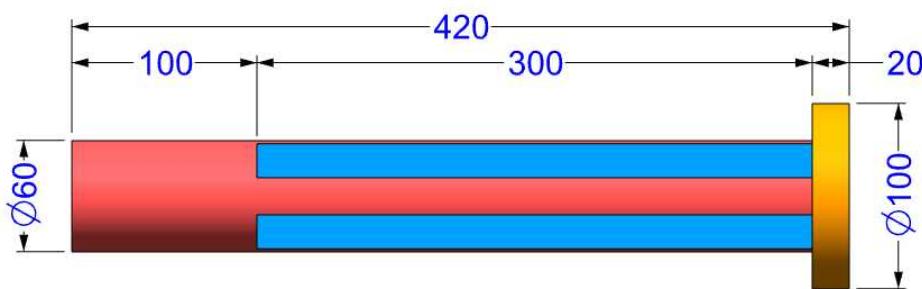
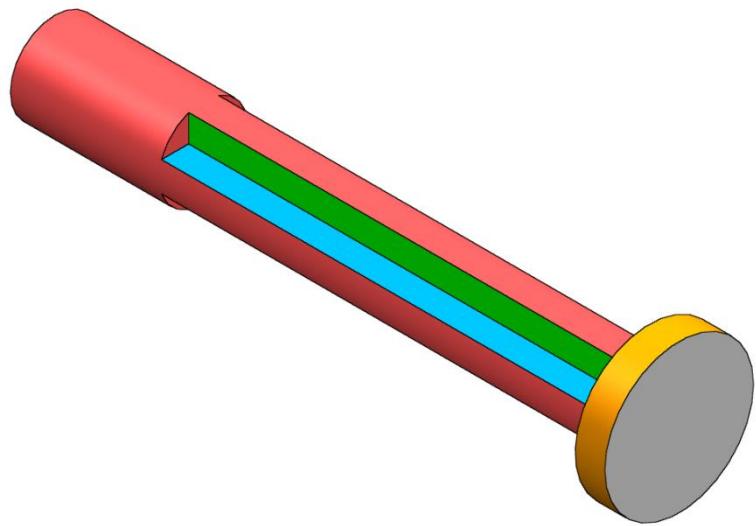


SECTION B-B

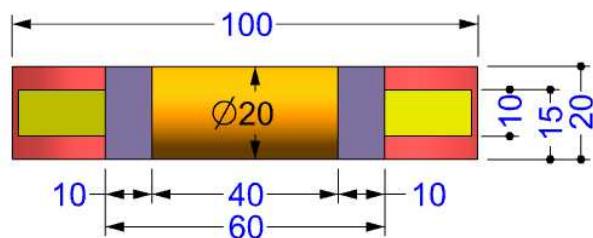
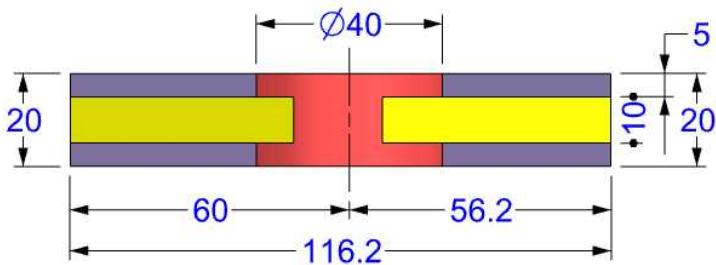
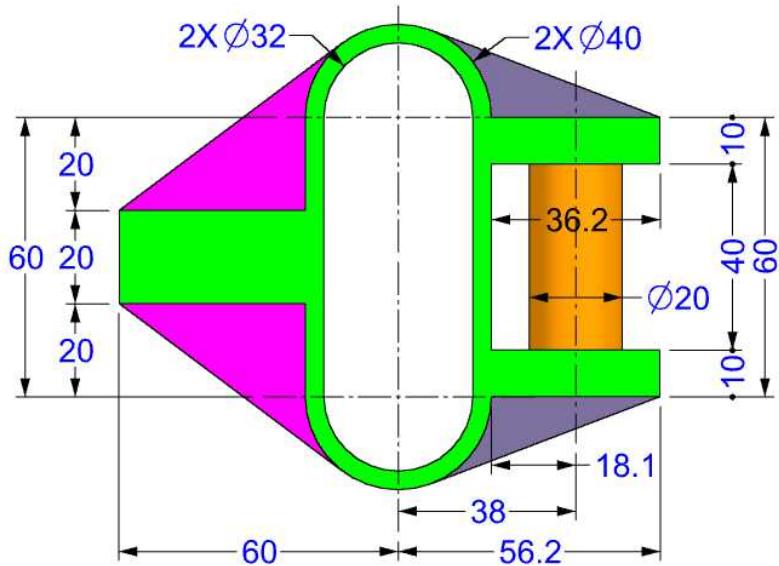
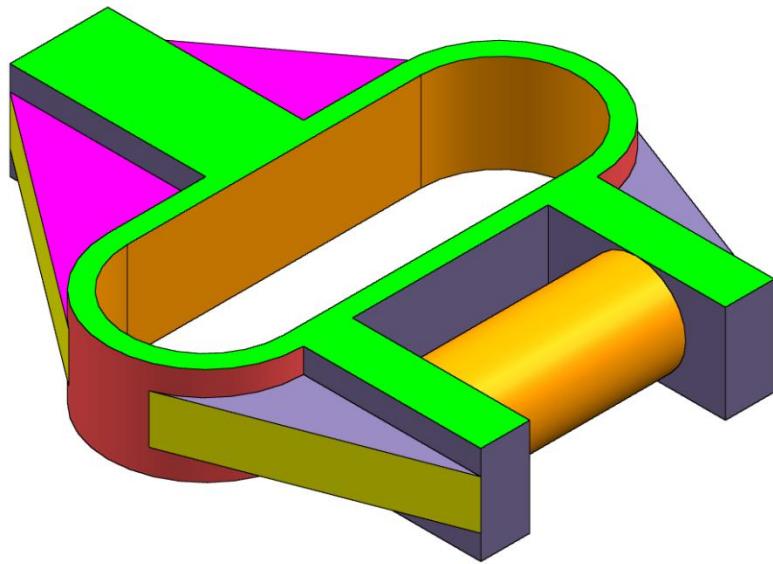


SECTION A-A

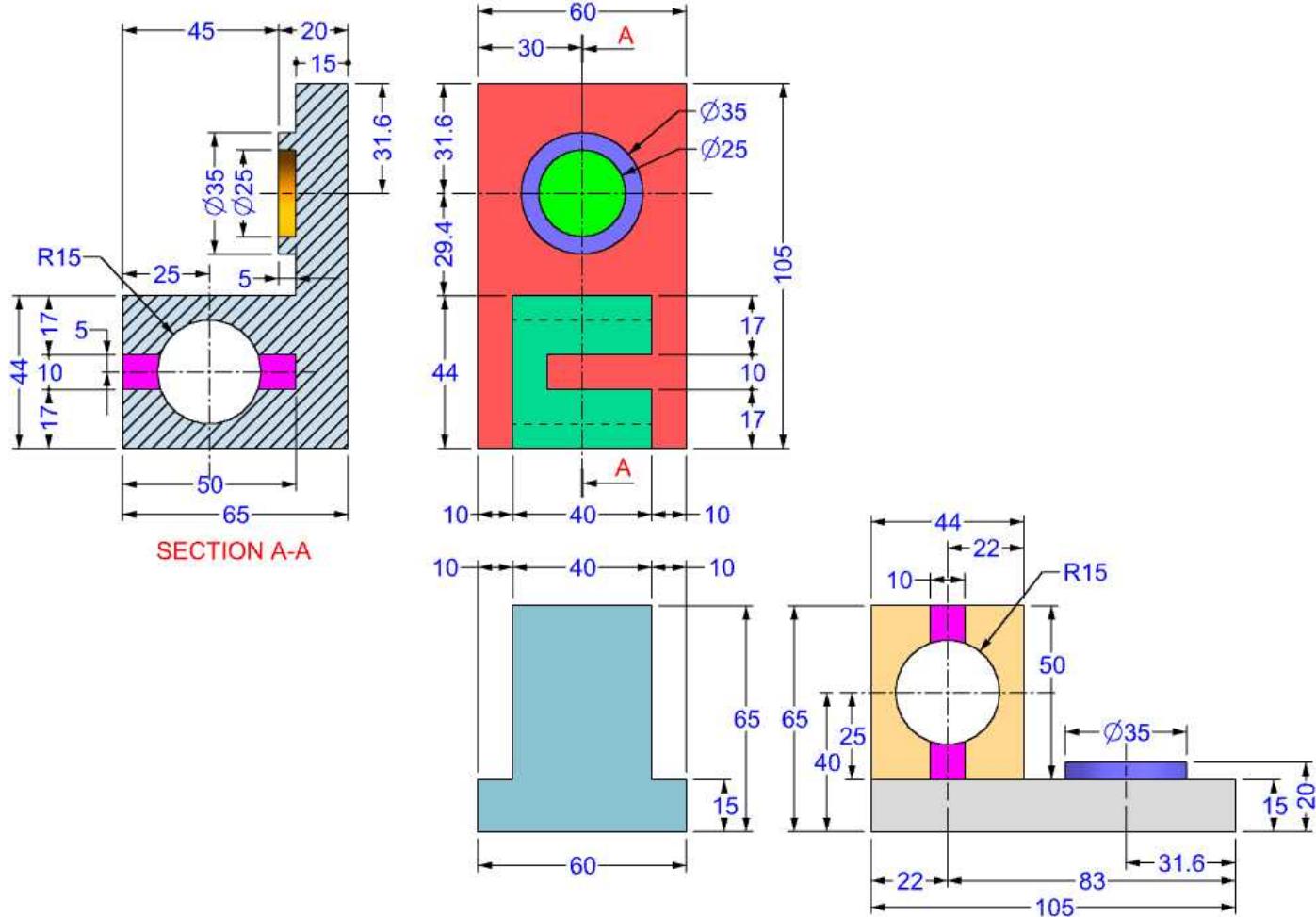
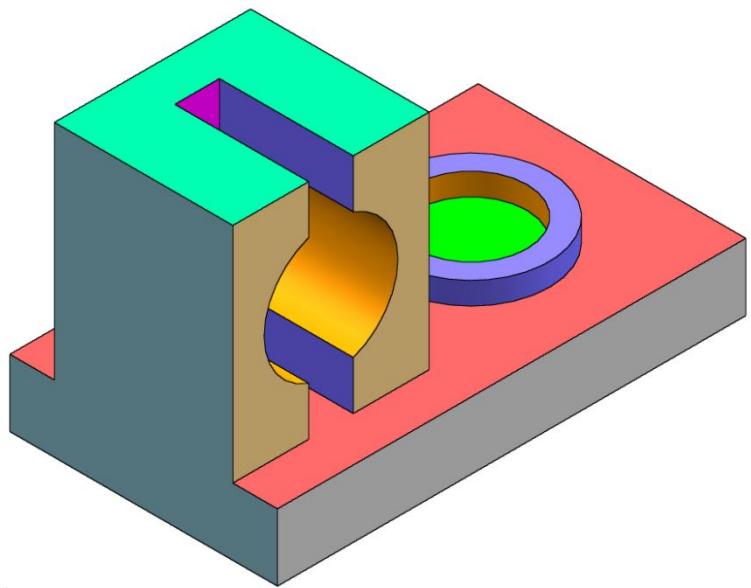
EXERCISE-87



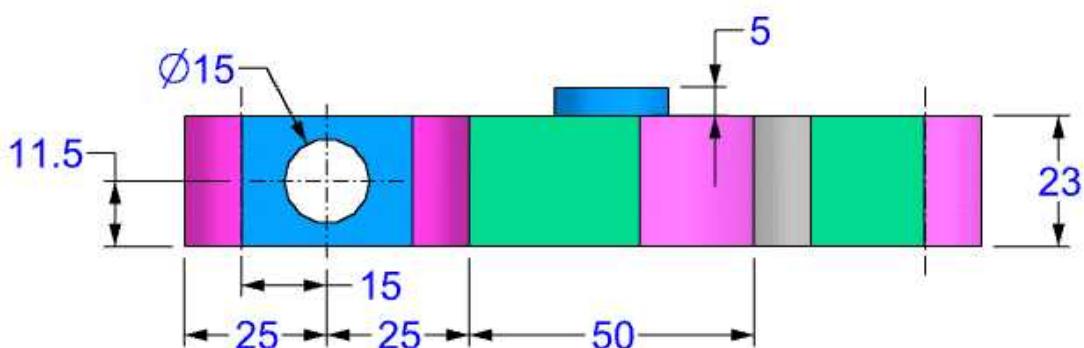
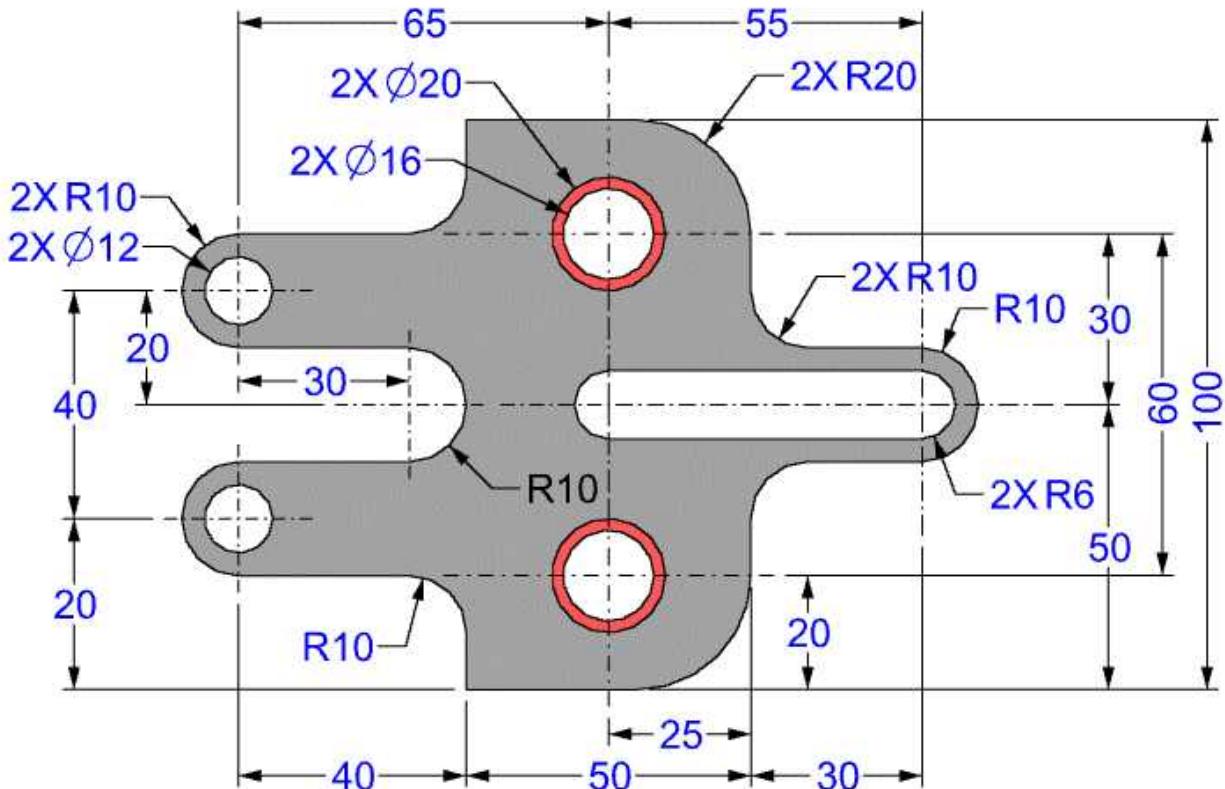
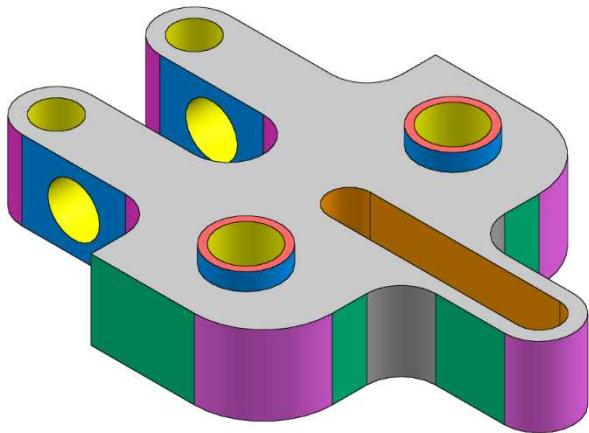
EXERCISE-88



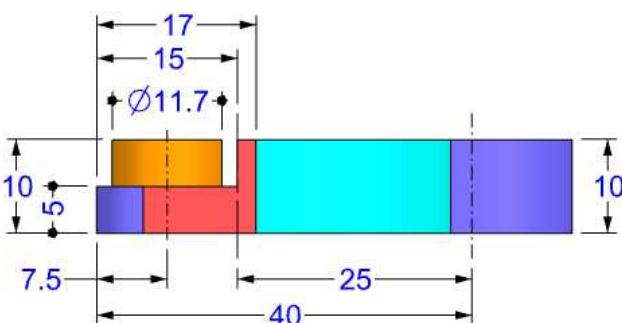
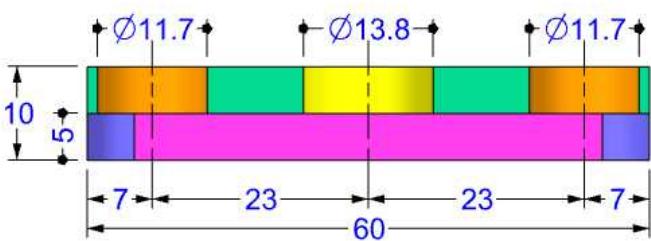
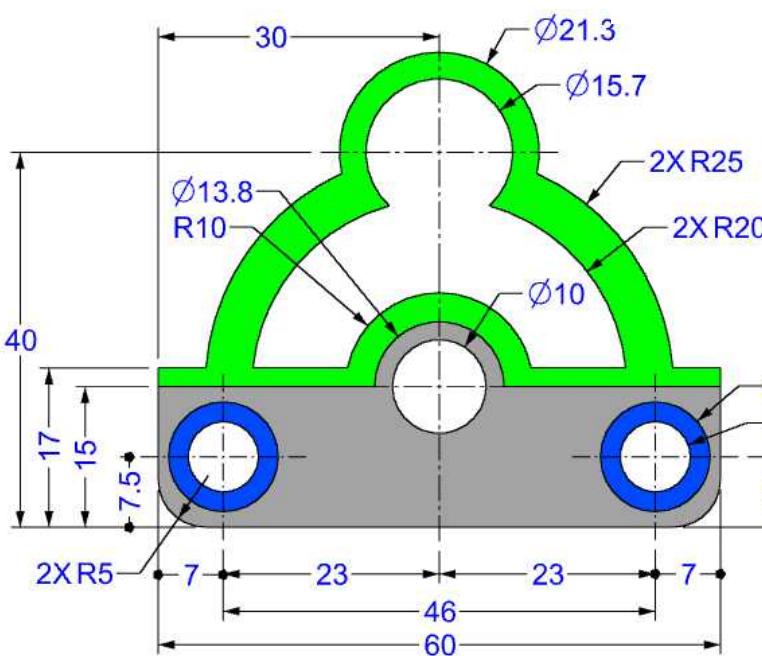
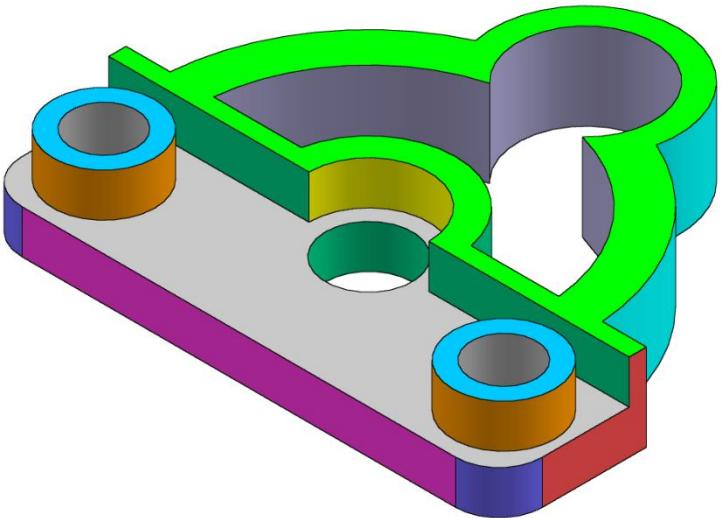
EXERCISE-89



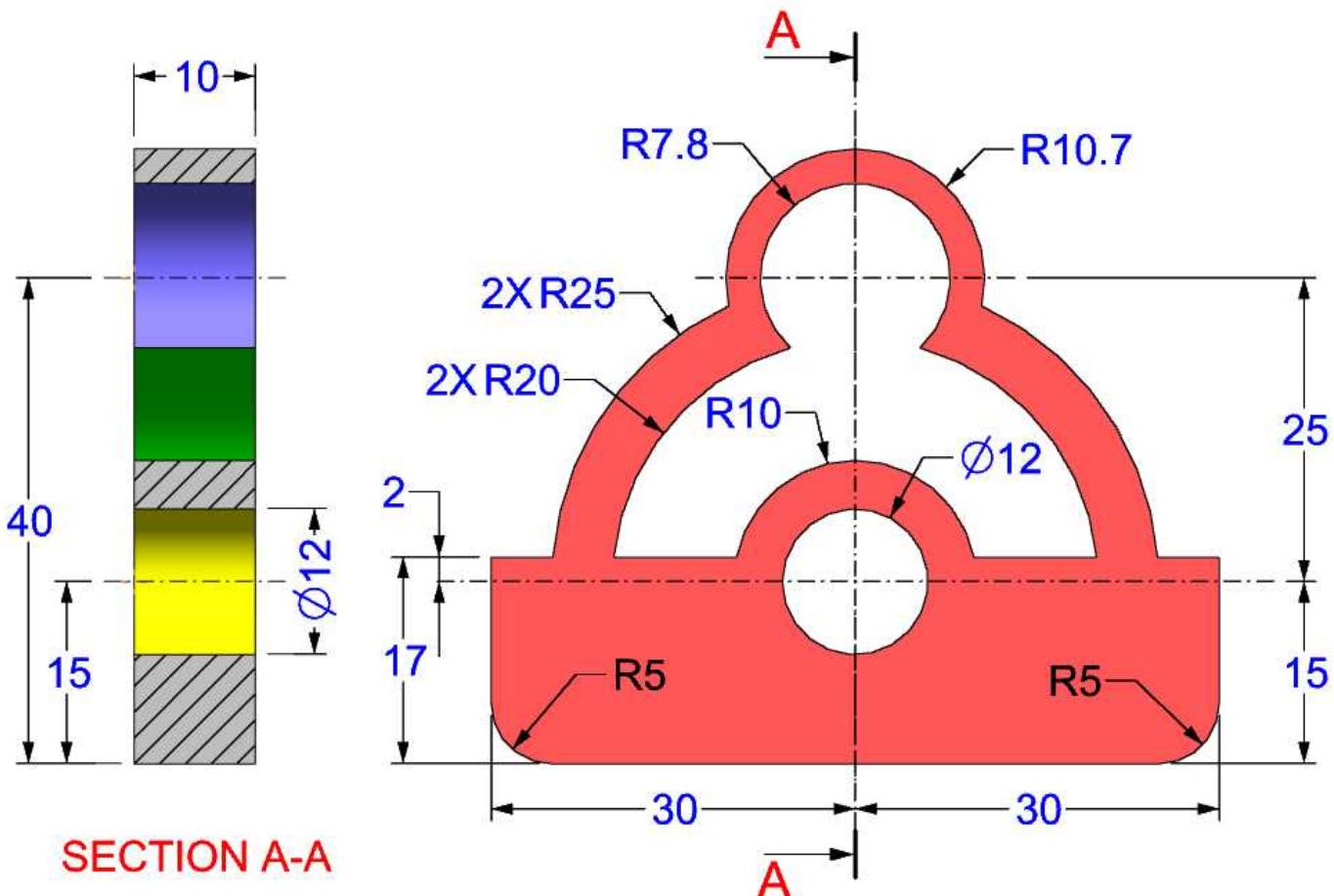
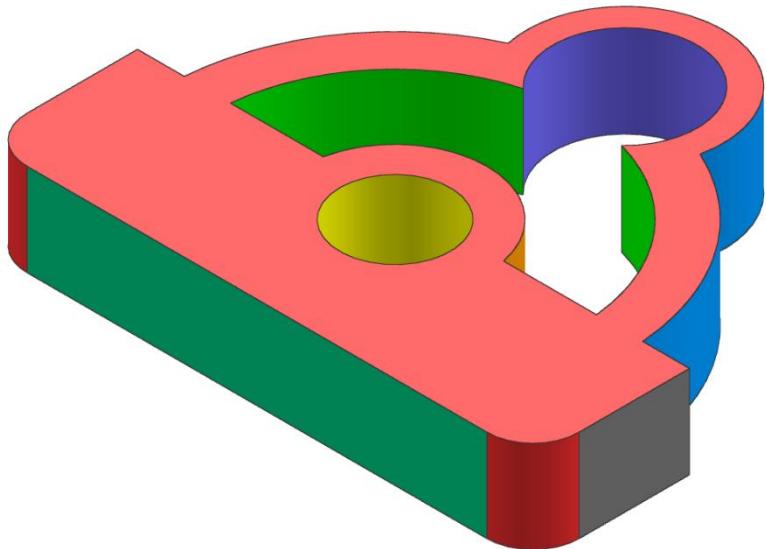
EXERCISE-90



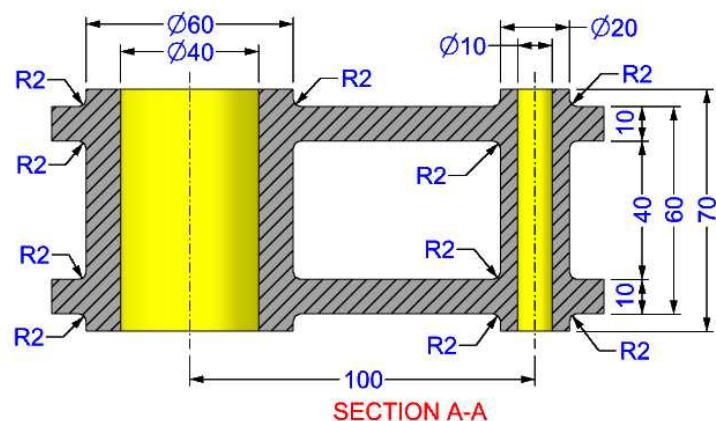
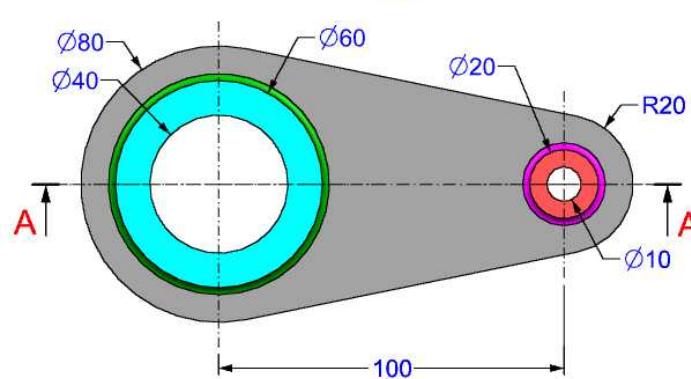
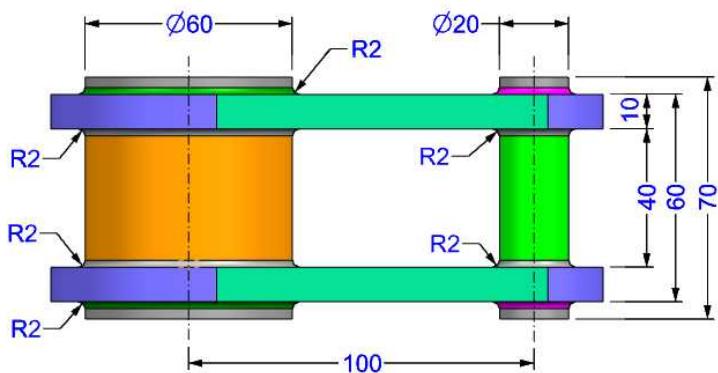
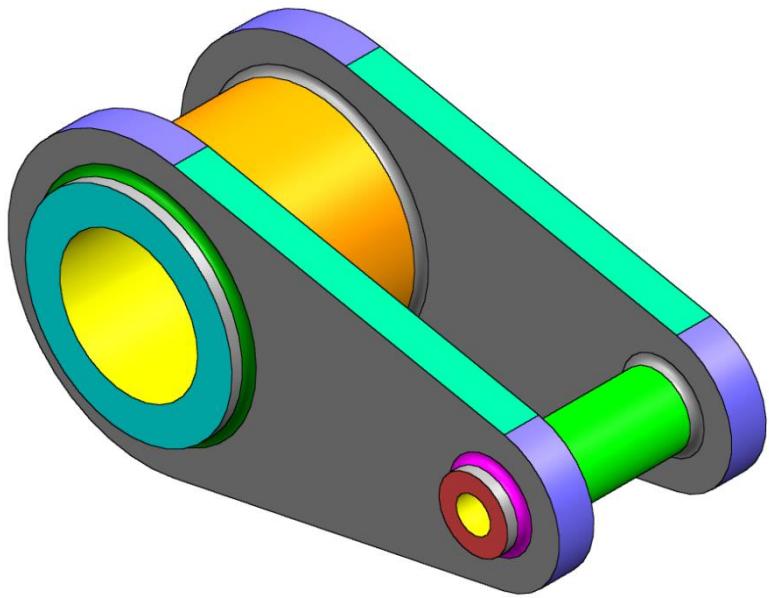
EXERCISE-91



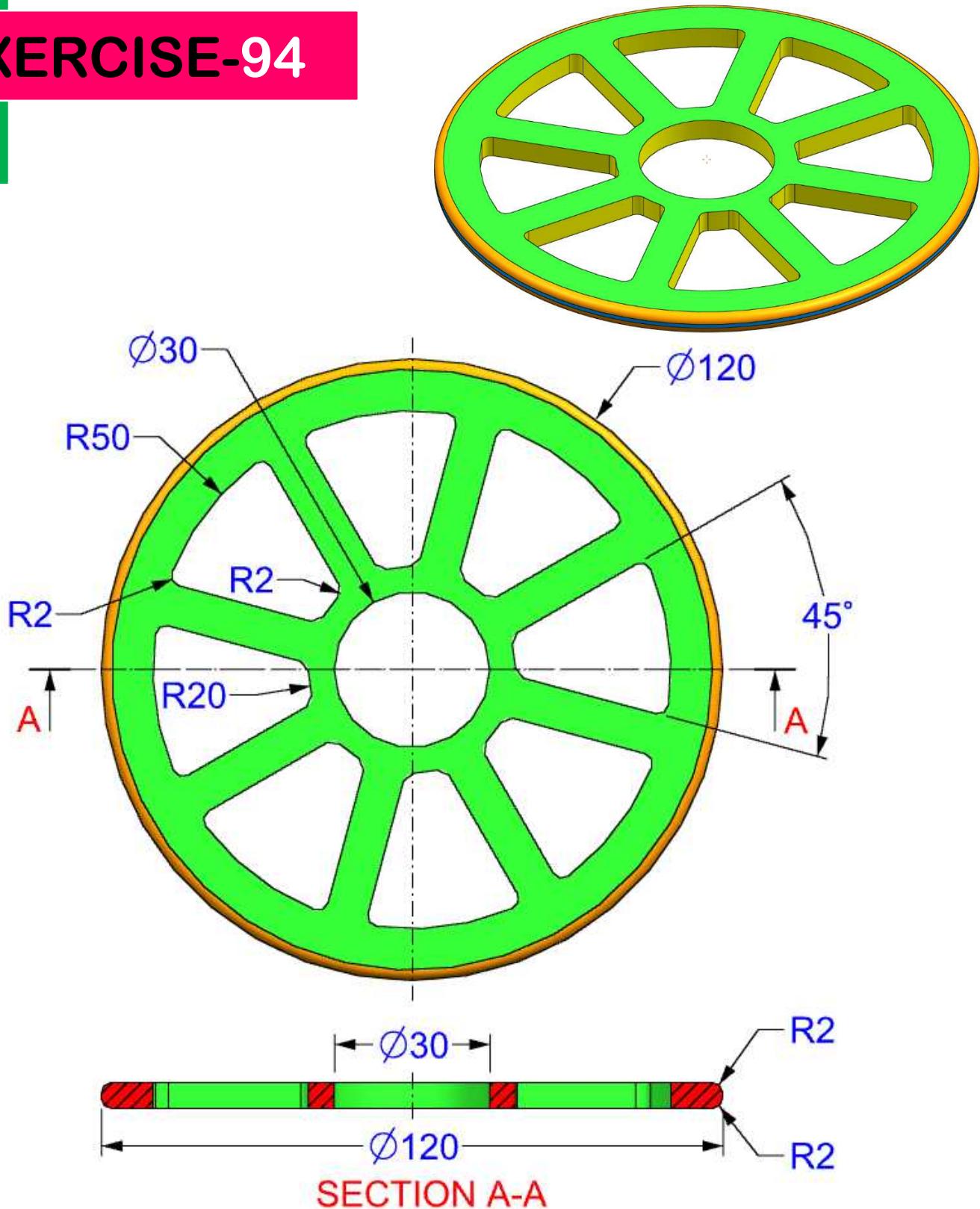
EXERCISE-92



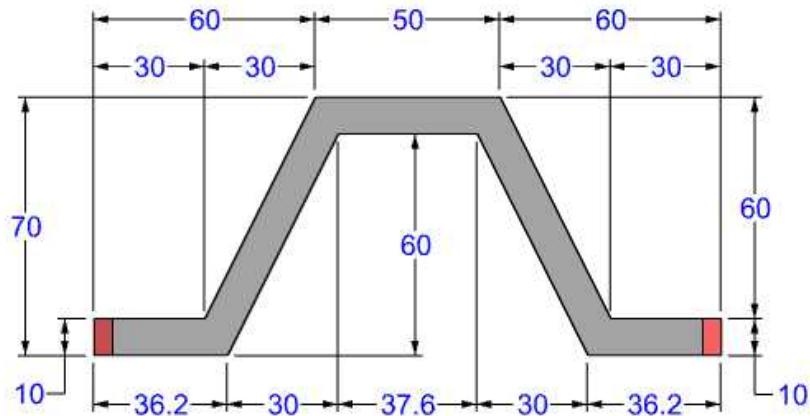
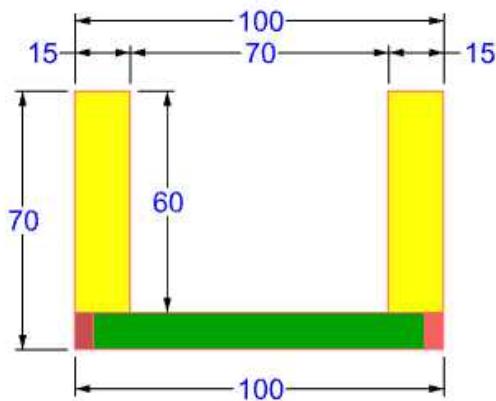
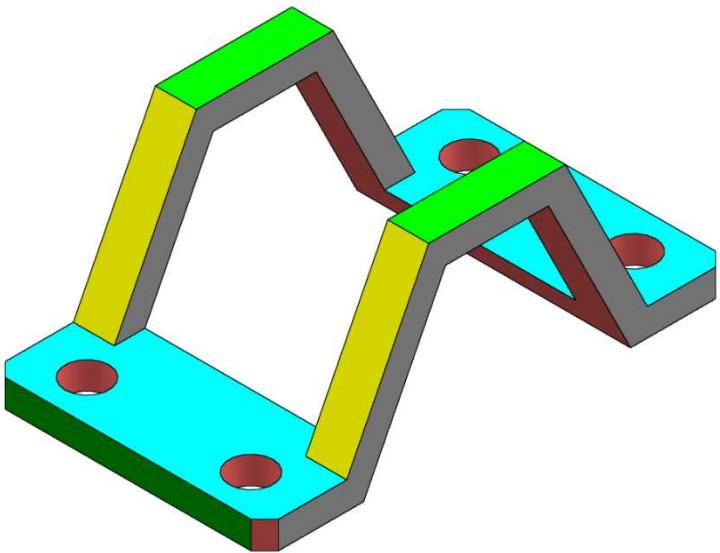
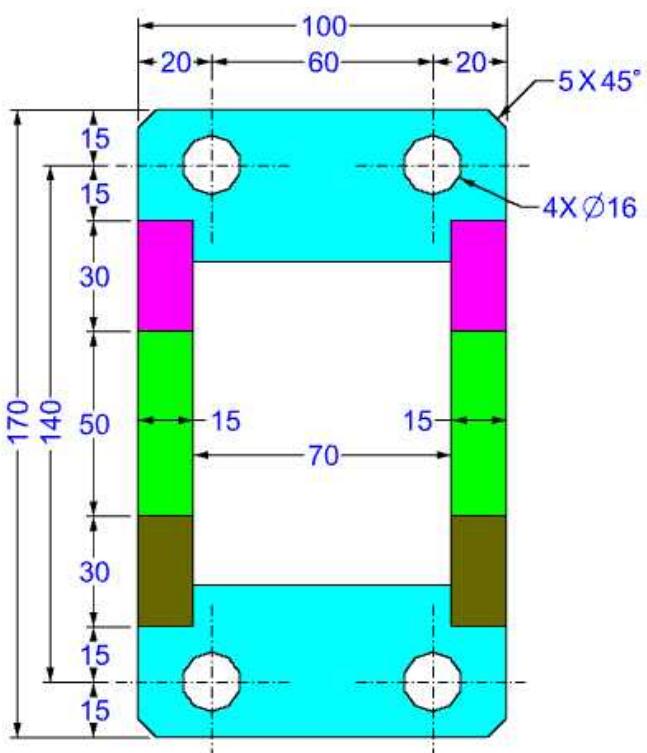
EXERCISE-93



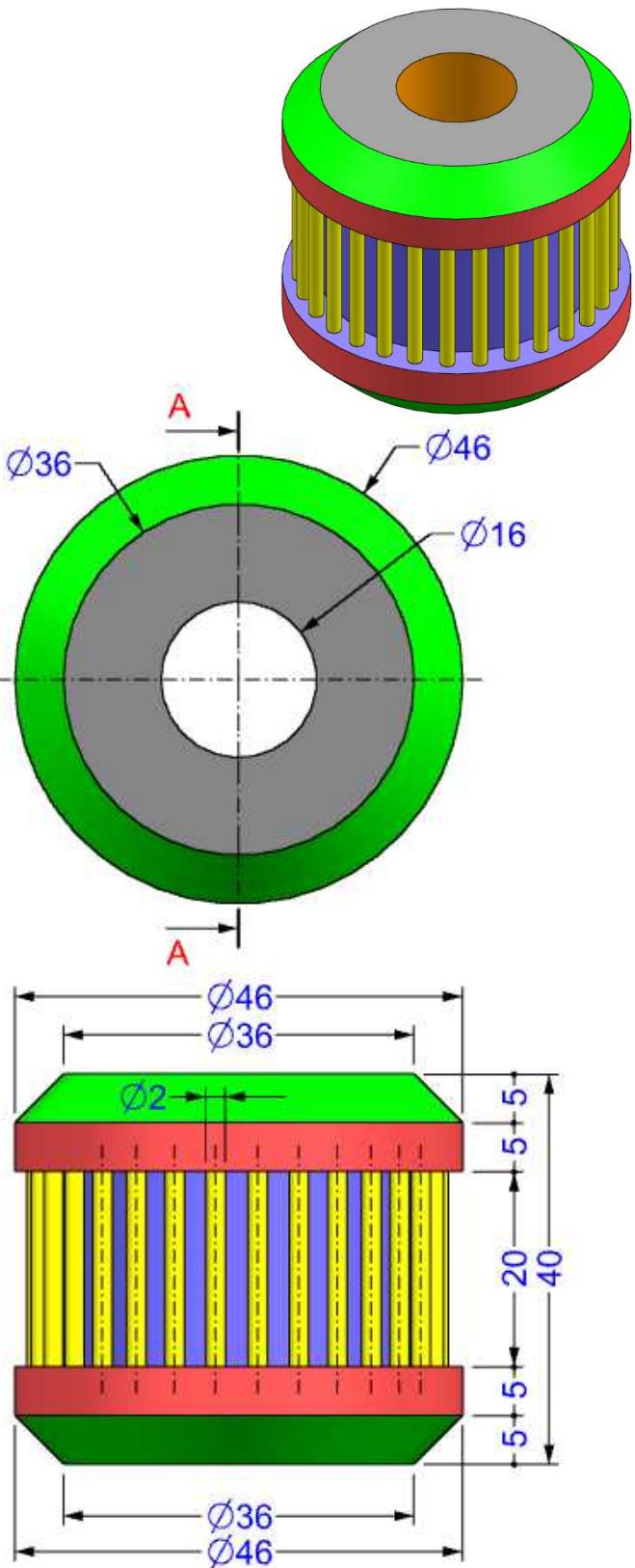
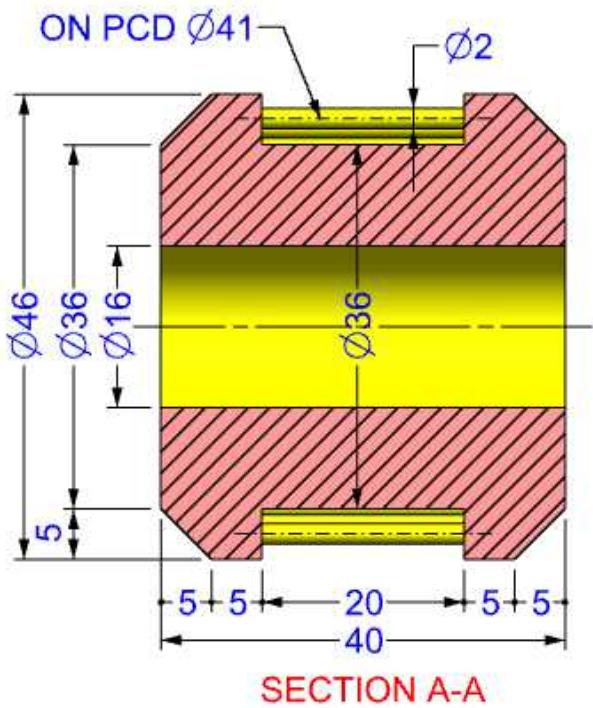
EXERCISE-94

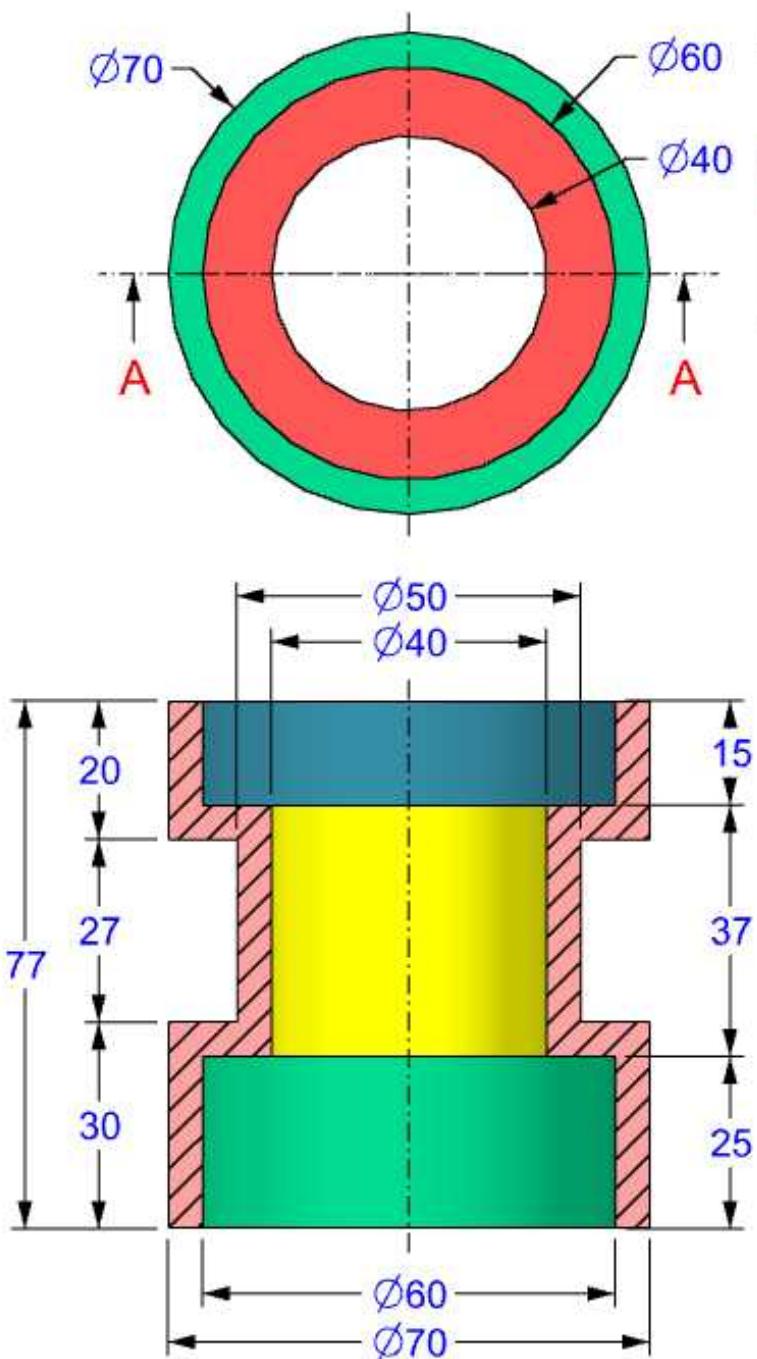


EXERCISE-95



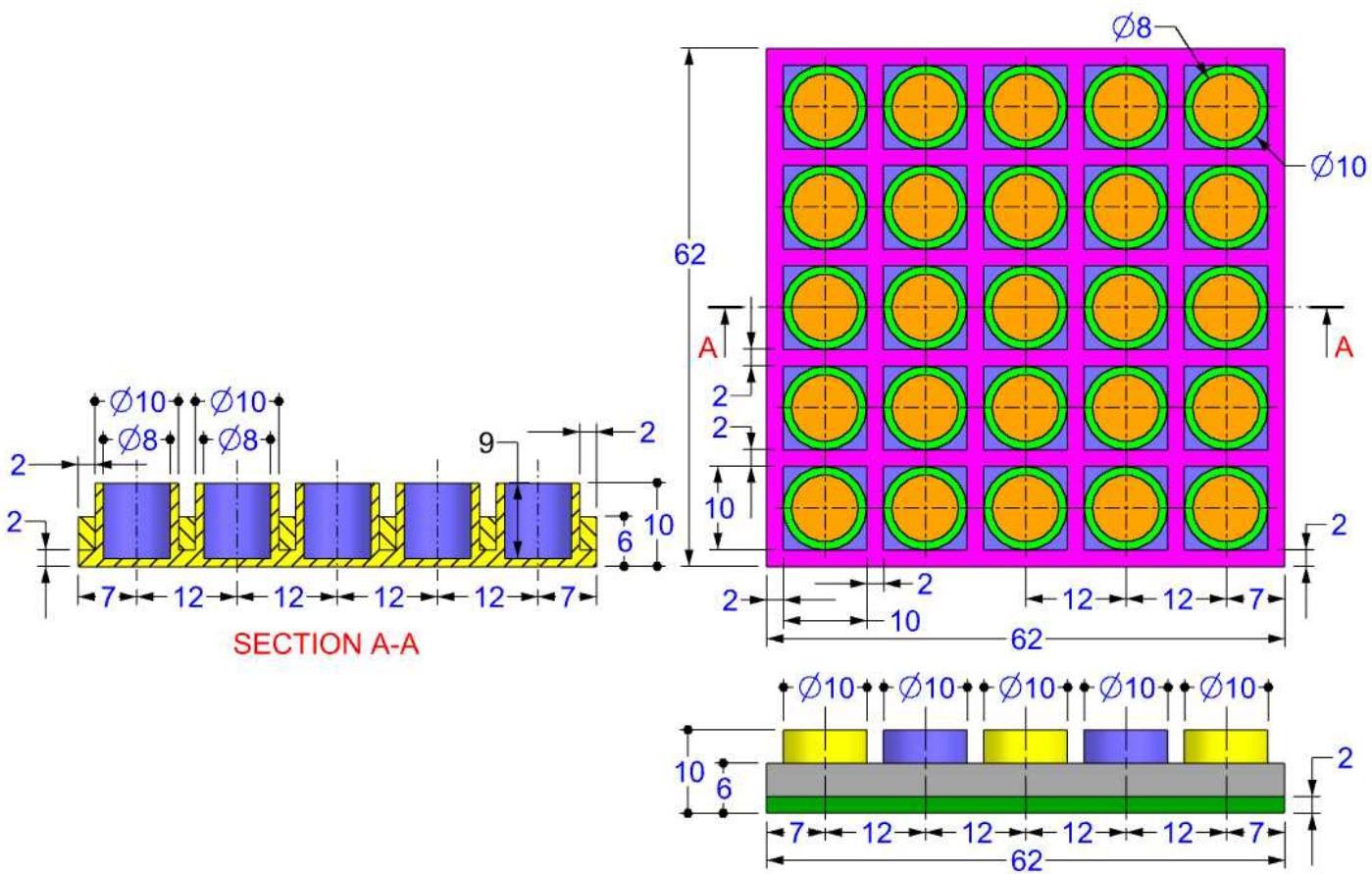
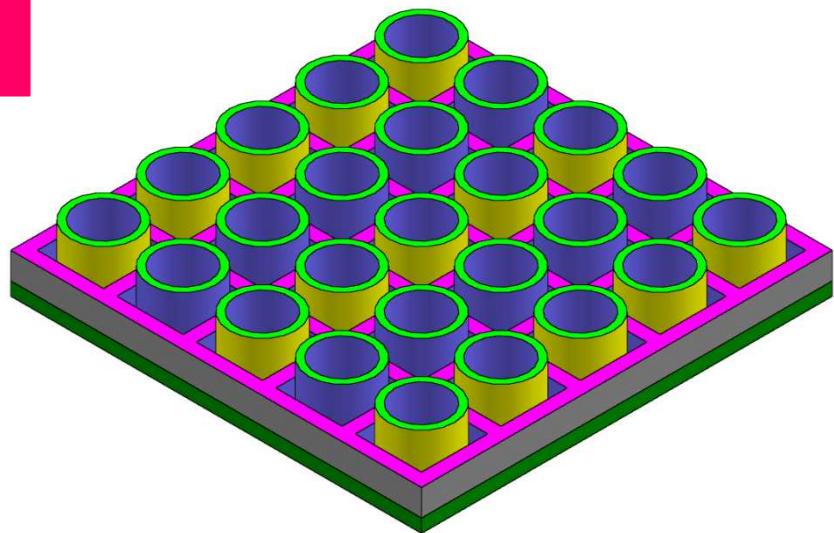
EXERCISE-96



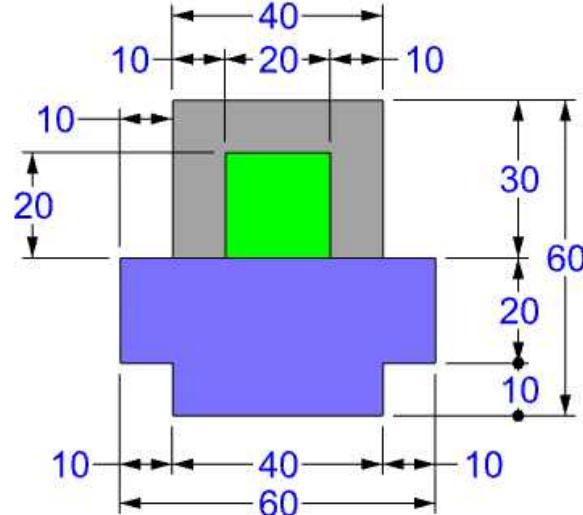
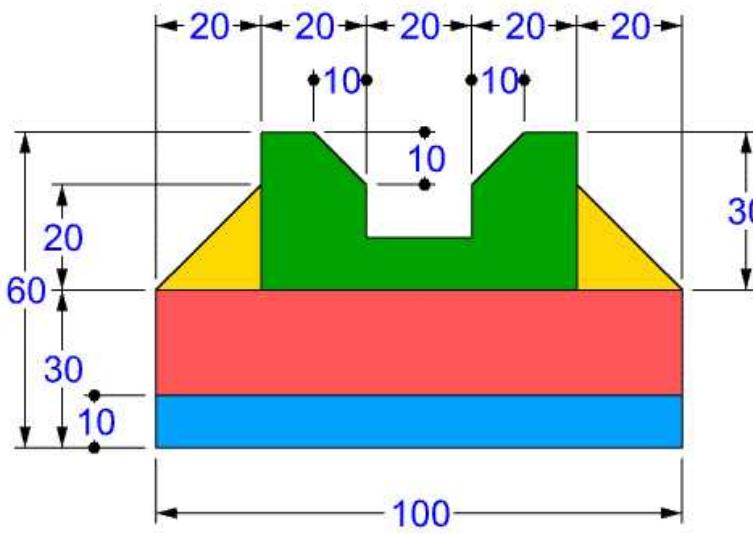
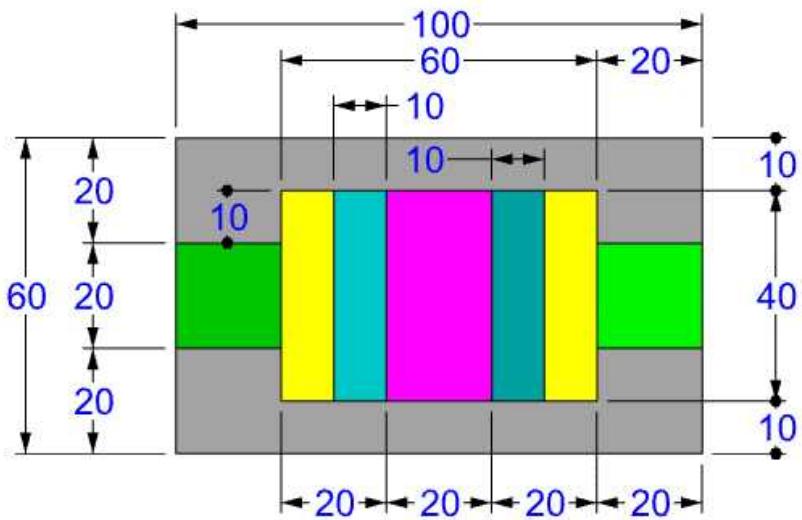
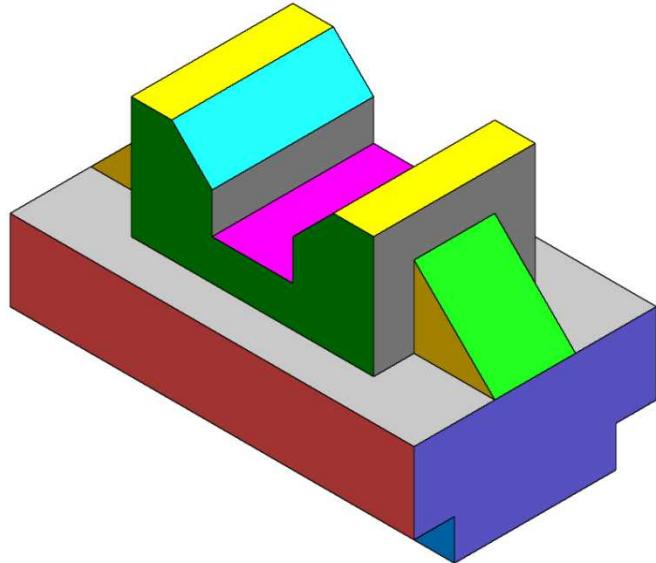
EXERCISE-97

(SCALE 1:1) SECTION A-A

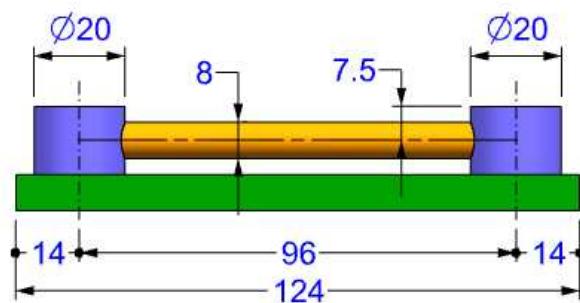
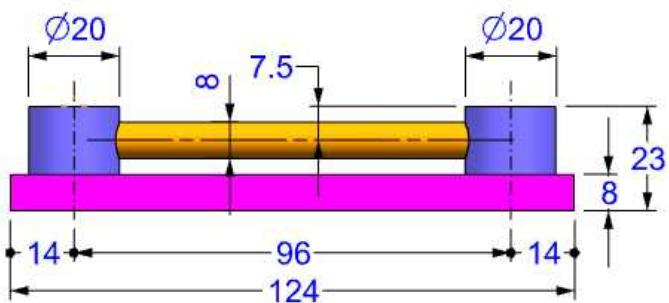
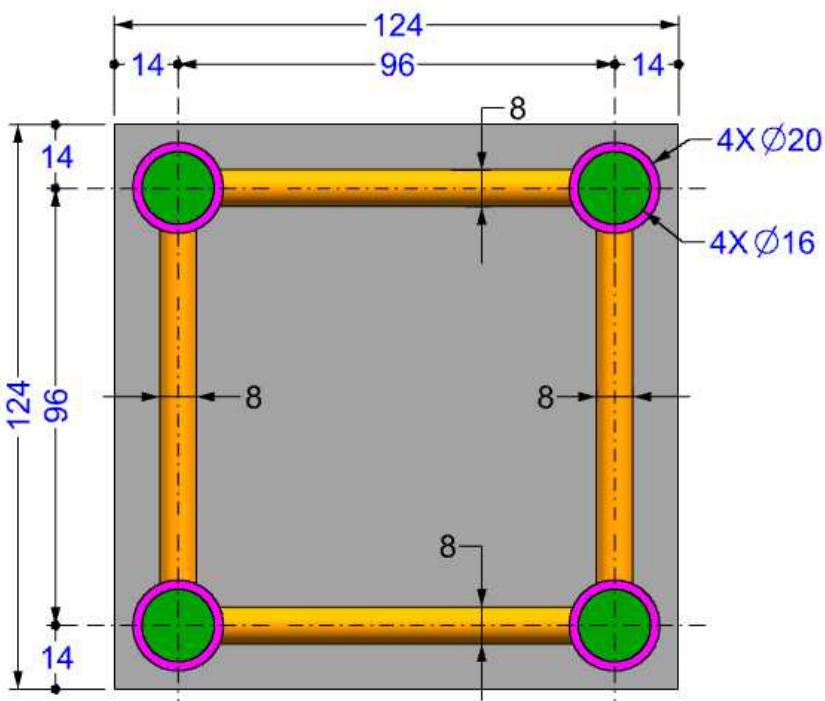
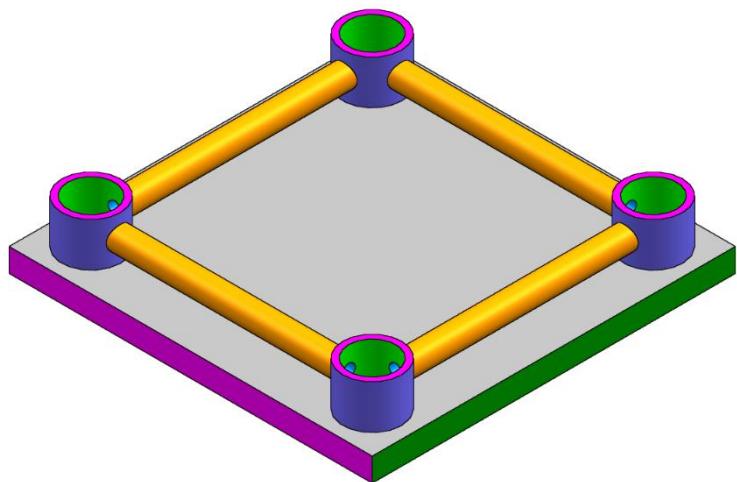
EXERCISE-98



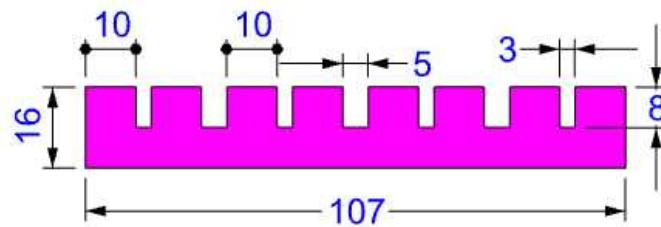
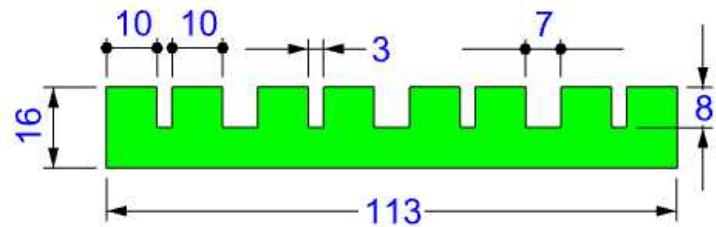
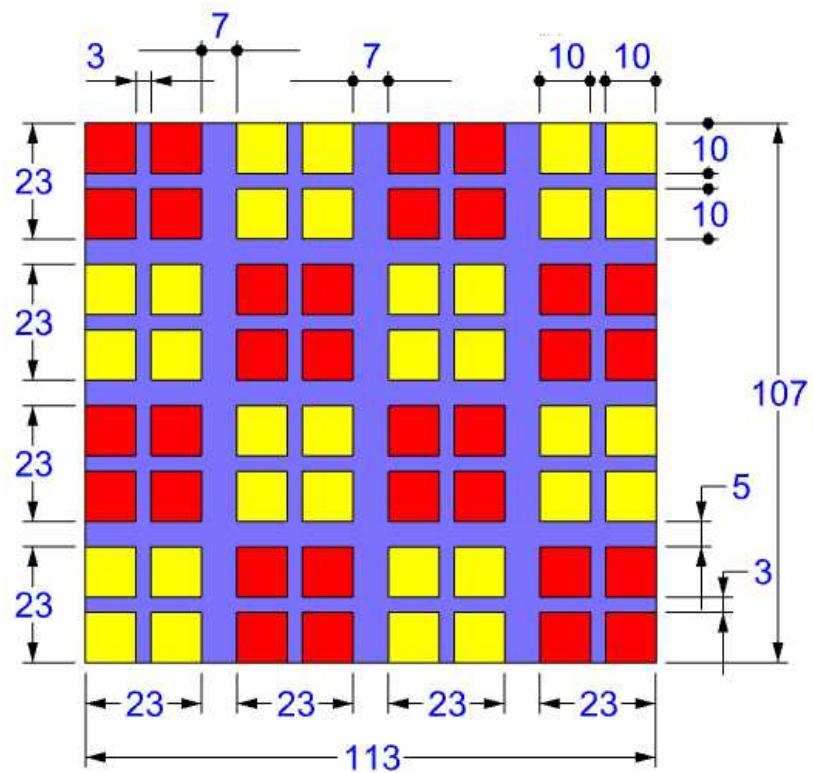
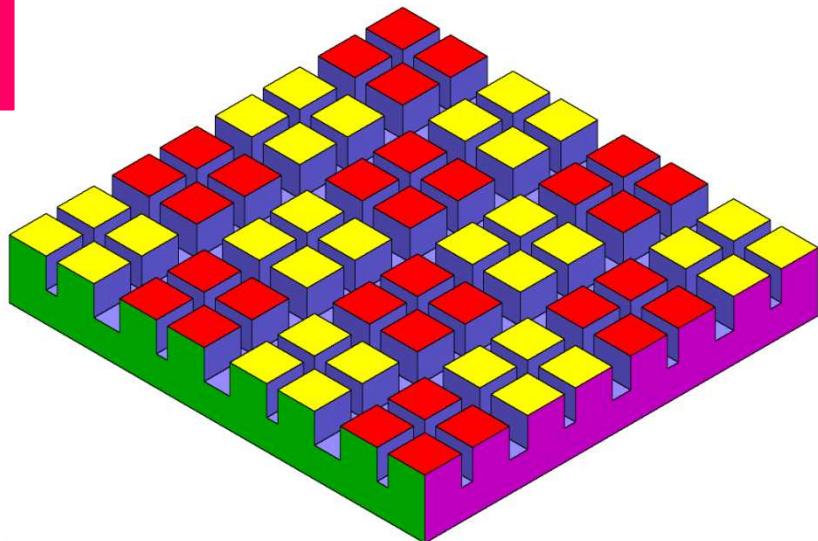
EXERCISE-99



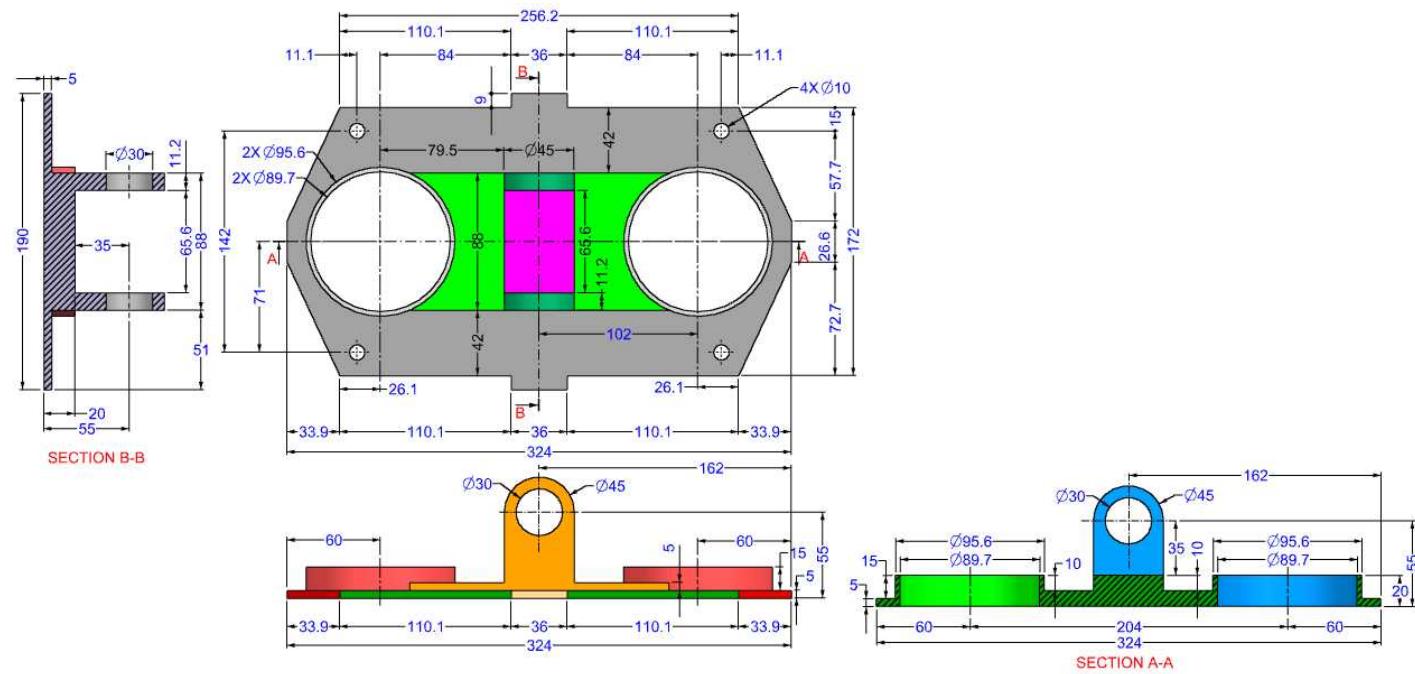
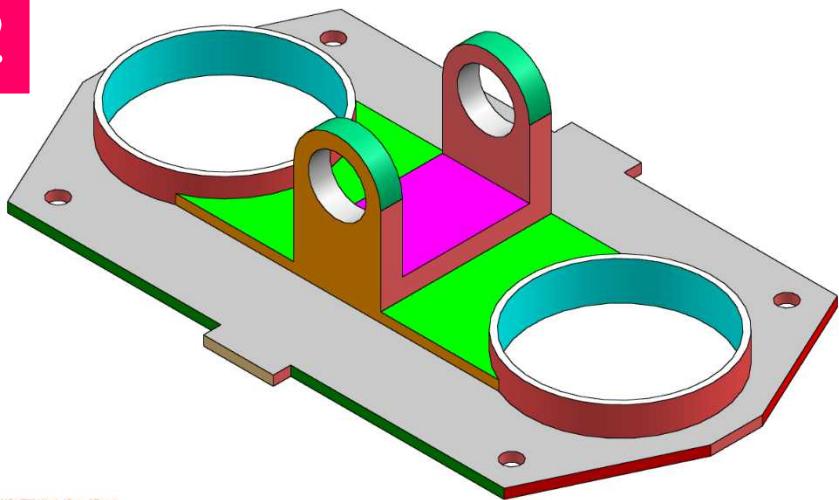
EXERCISE-100



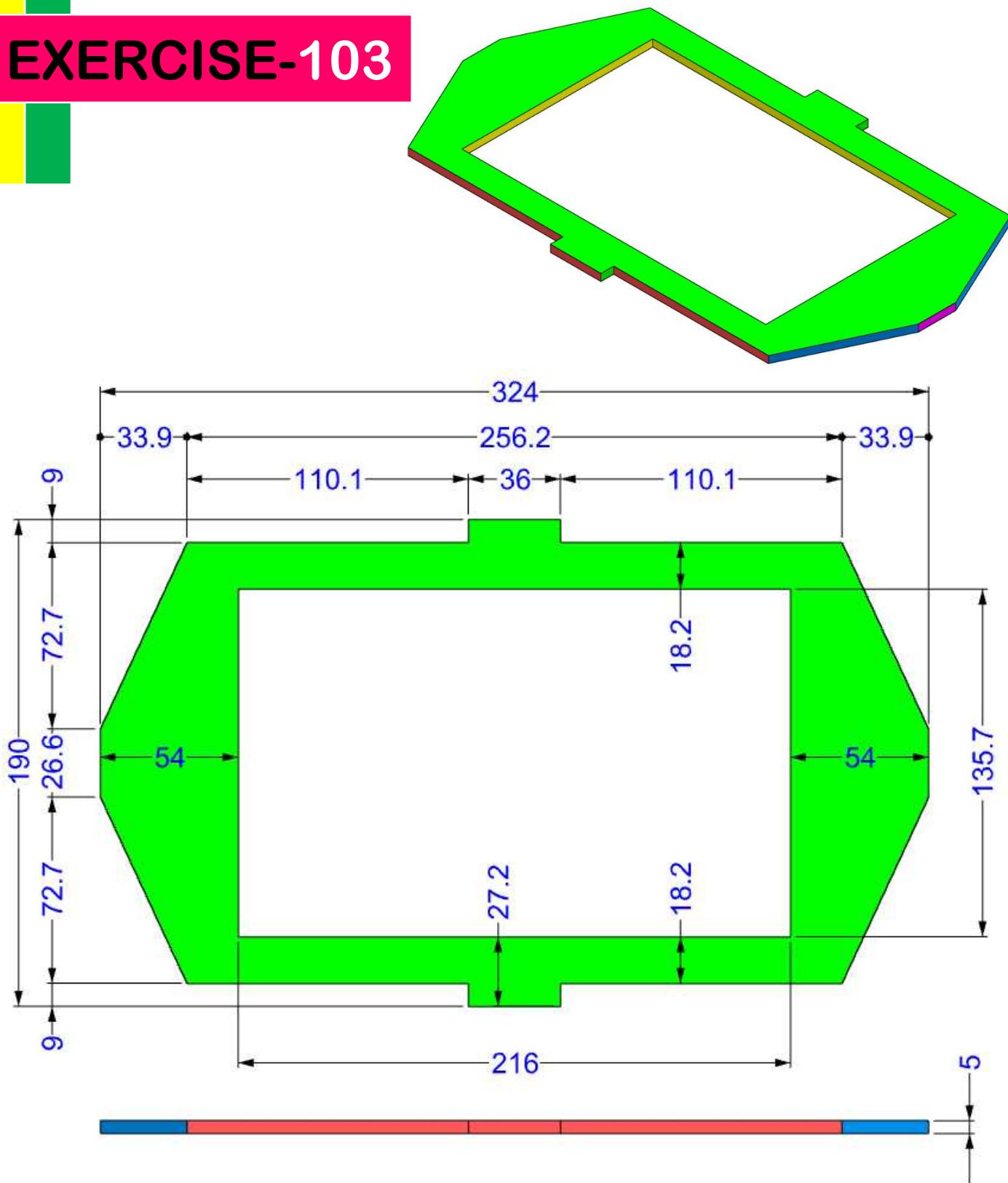
EXERCISE-101



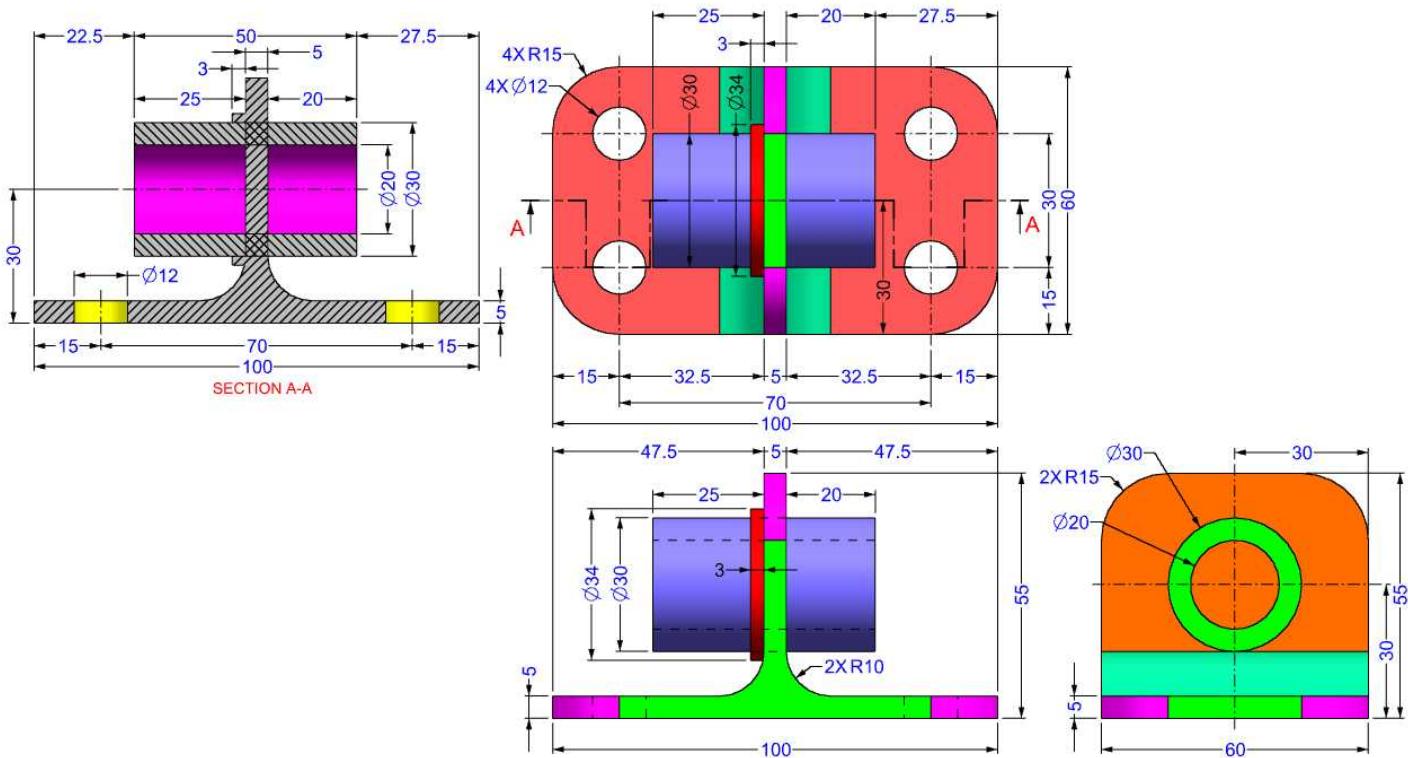
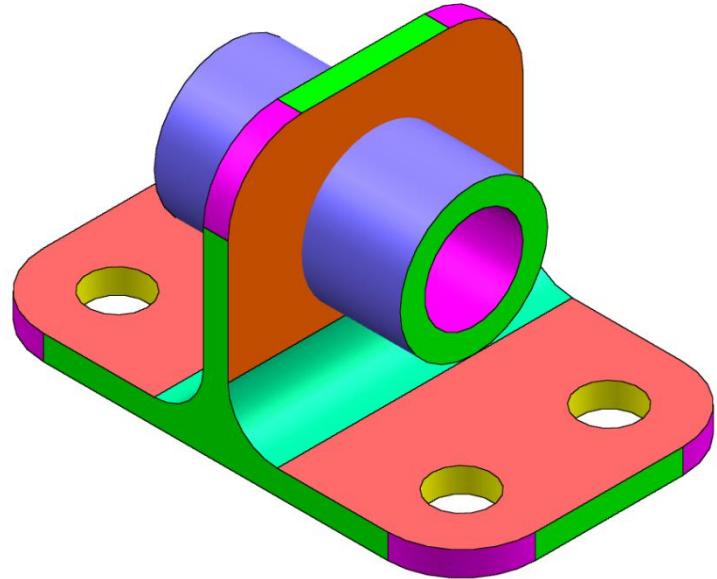
EXERCISE-102



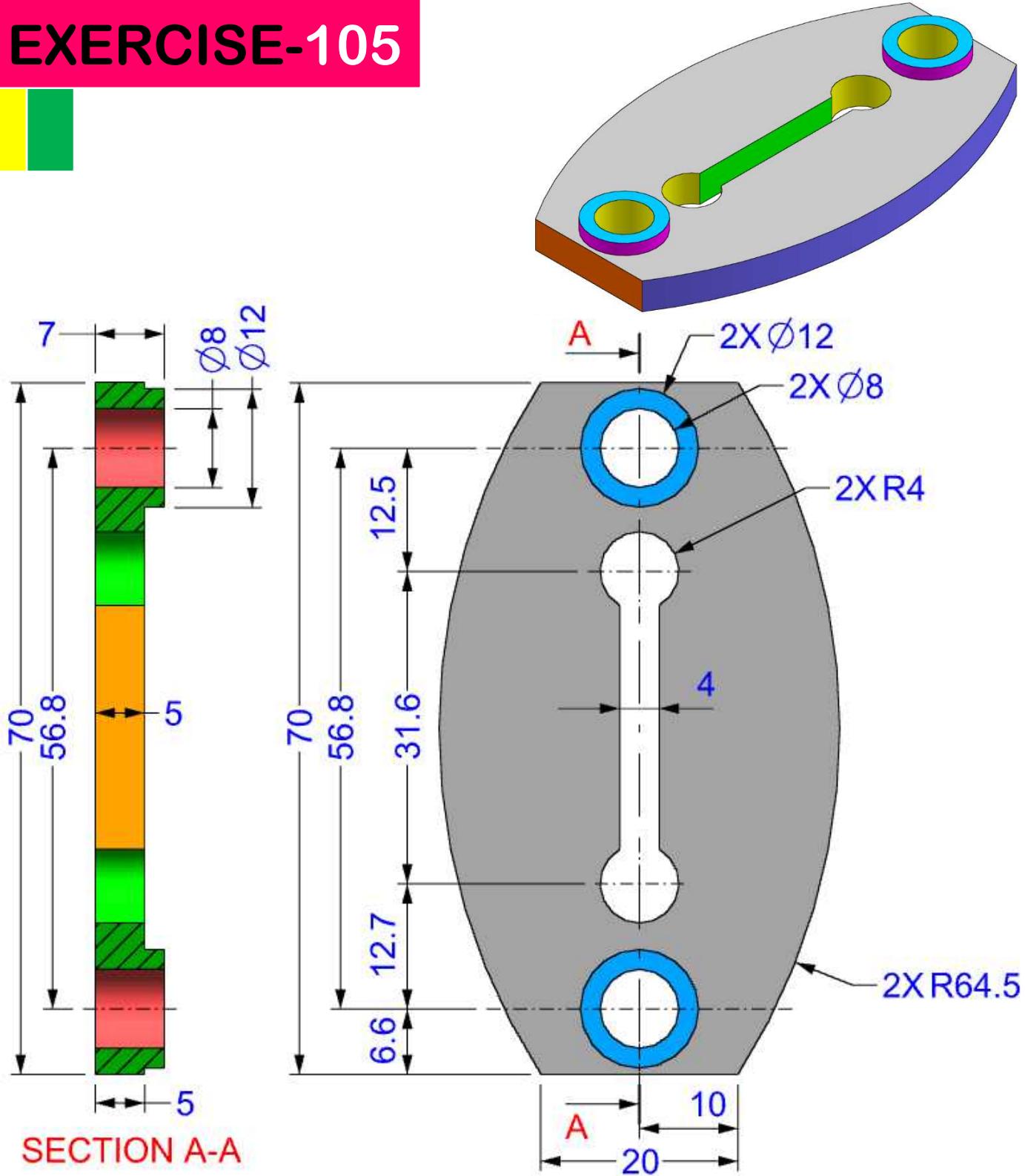
EXERCISE-103



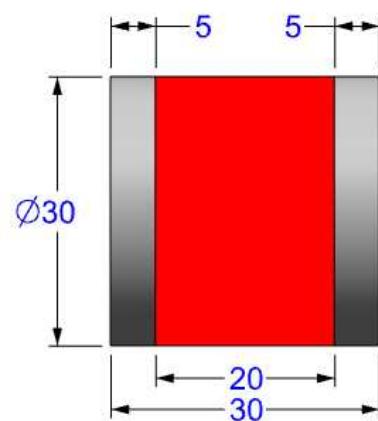
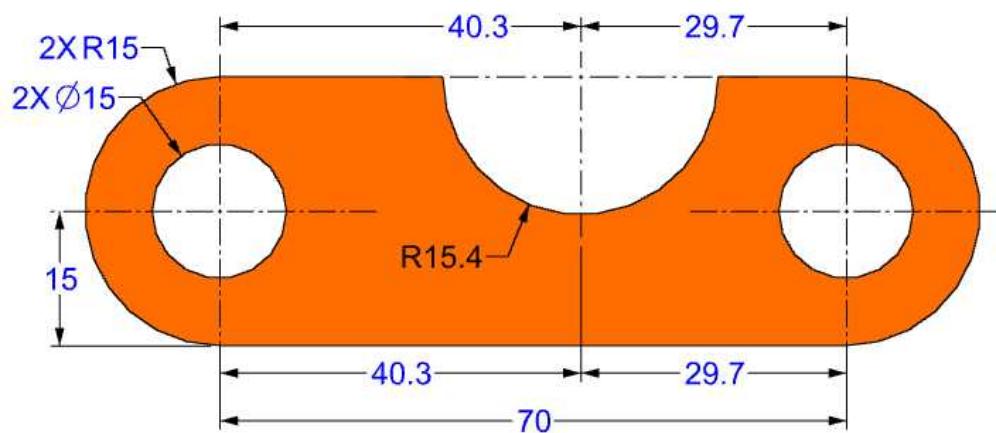
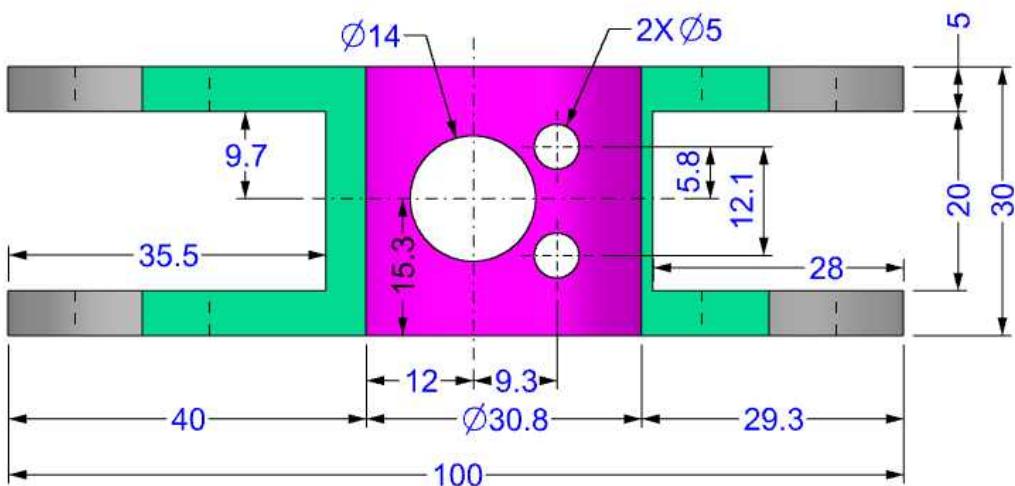
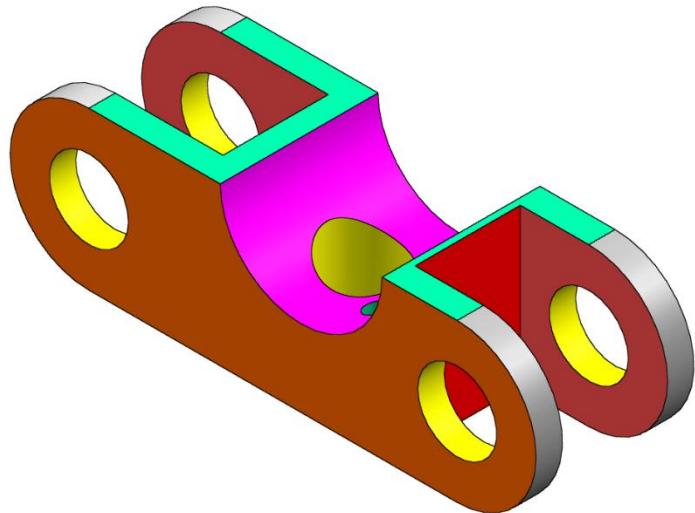
EXERCISE-104



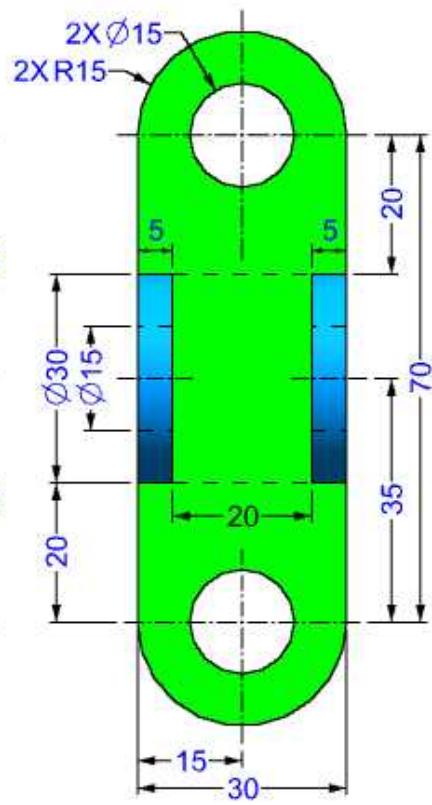
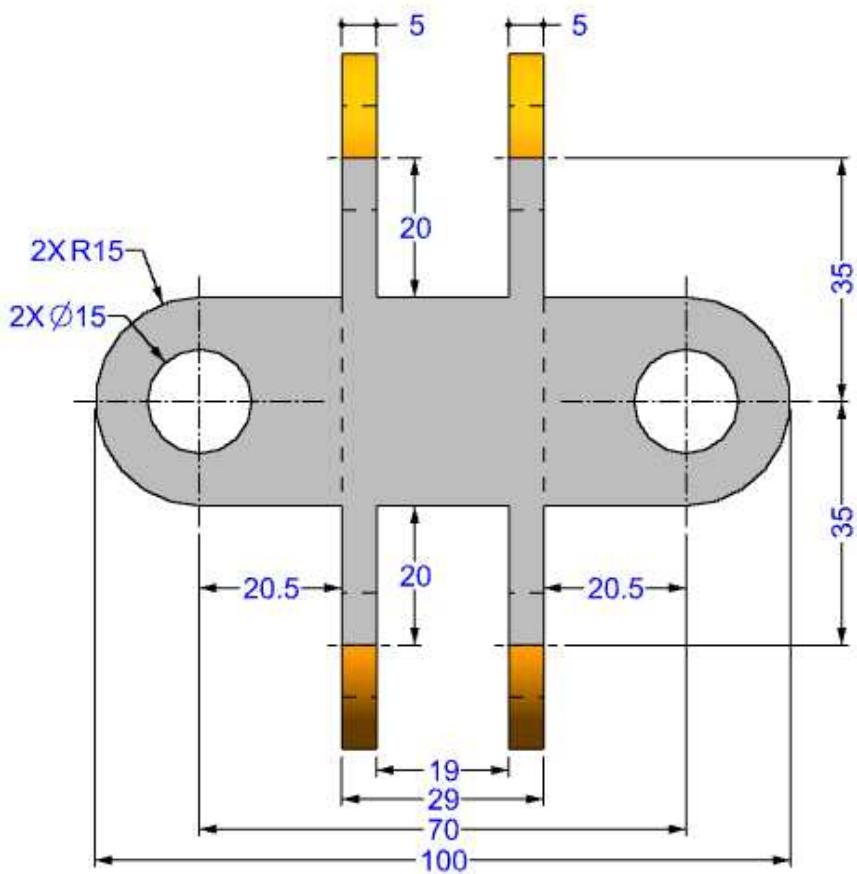
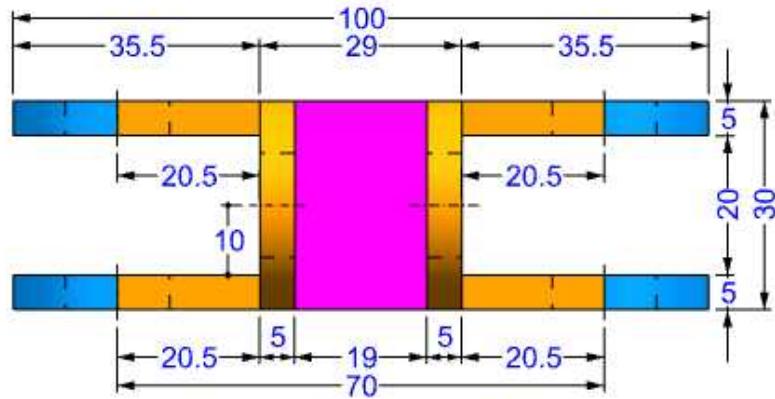
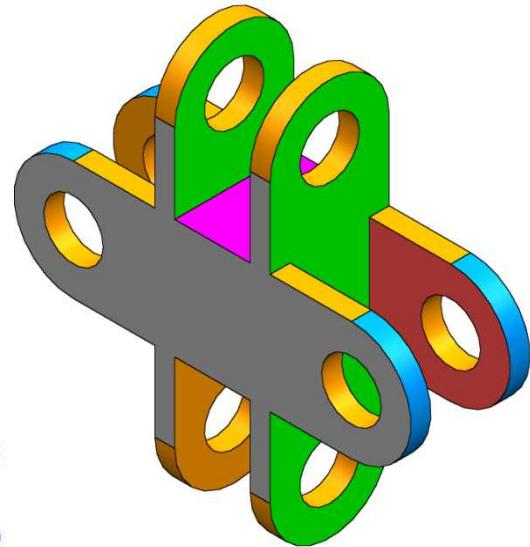
EXERCISE-105



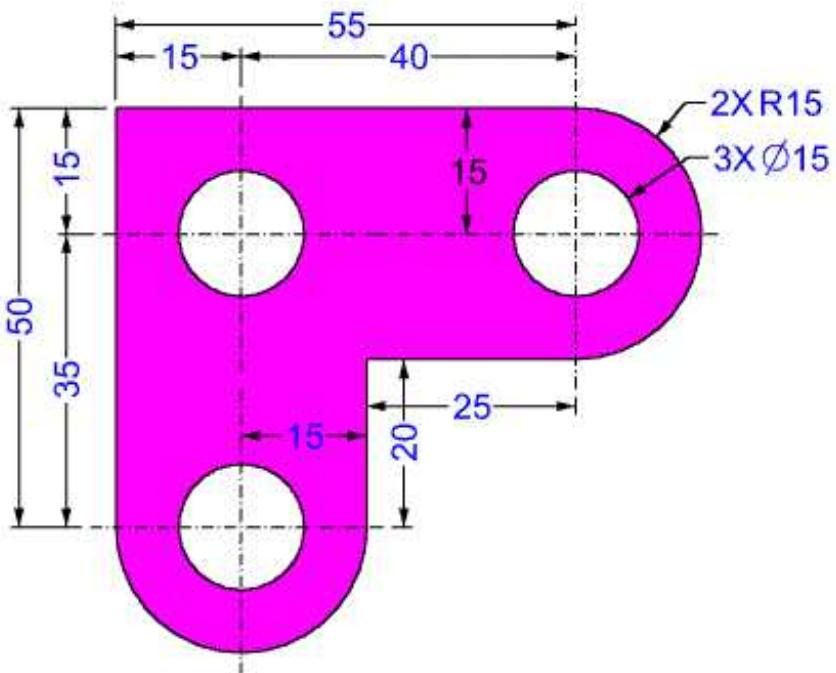
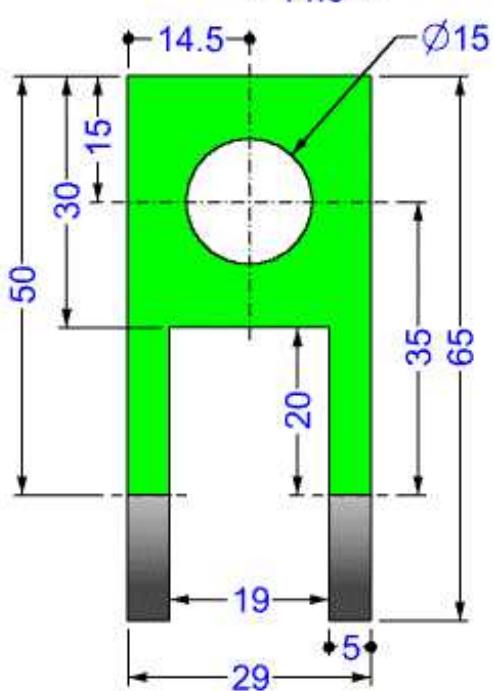
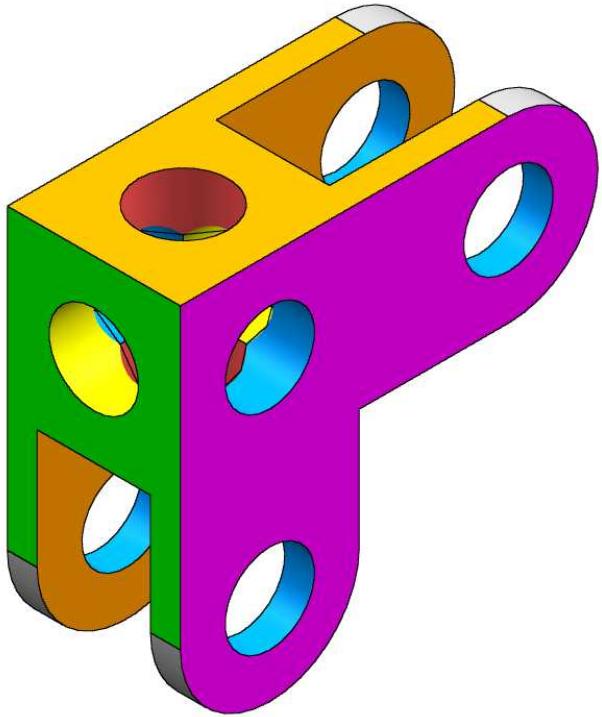
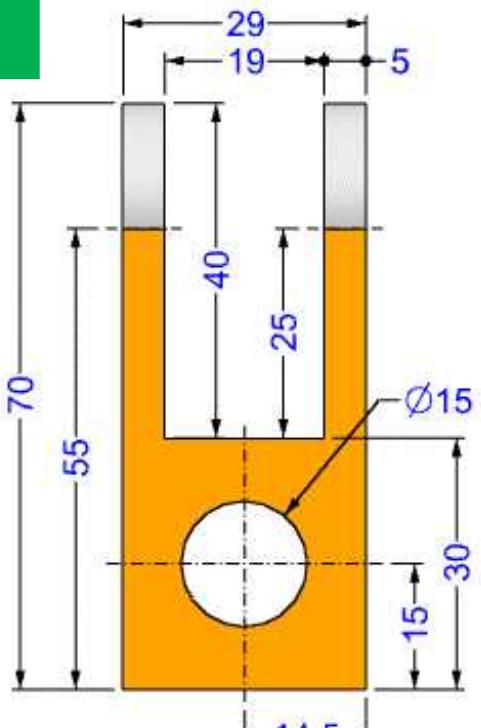
EXERCISE-106



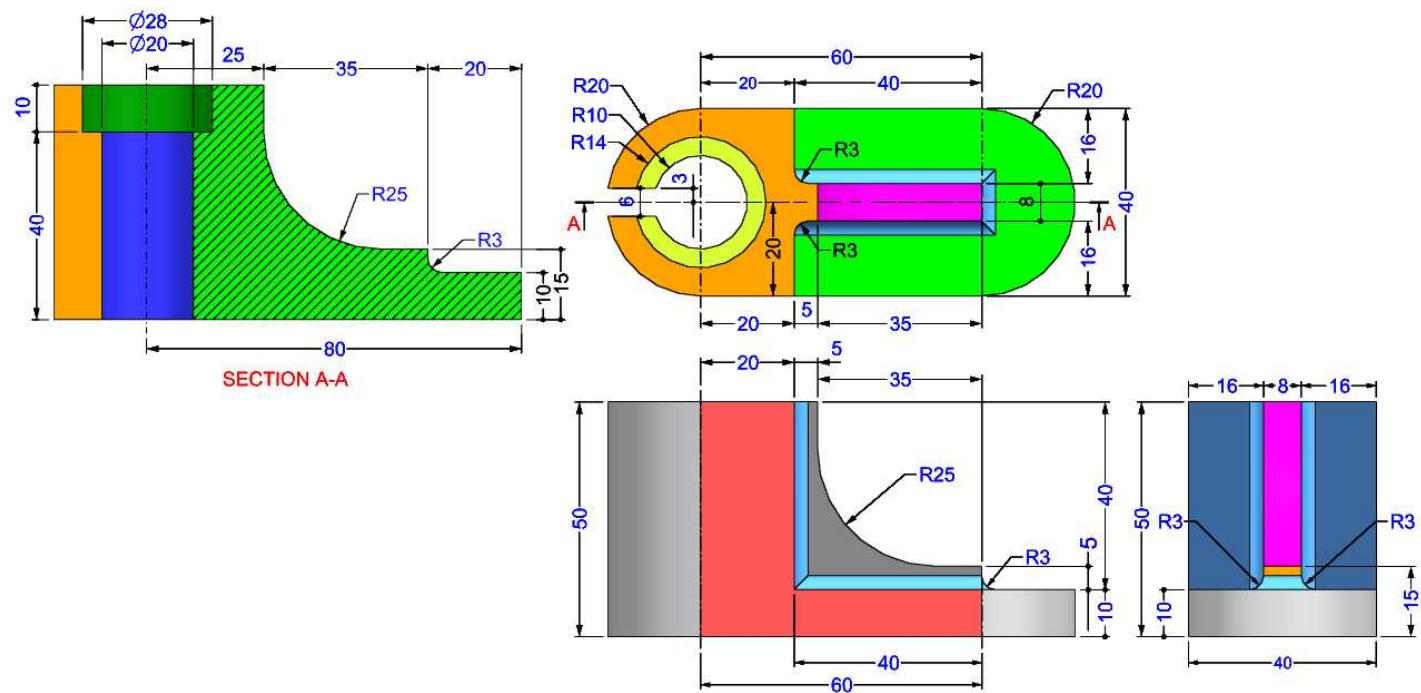
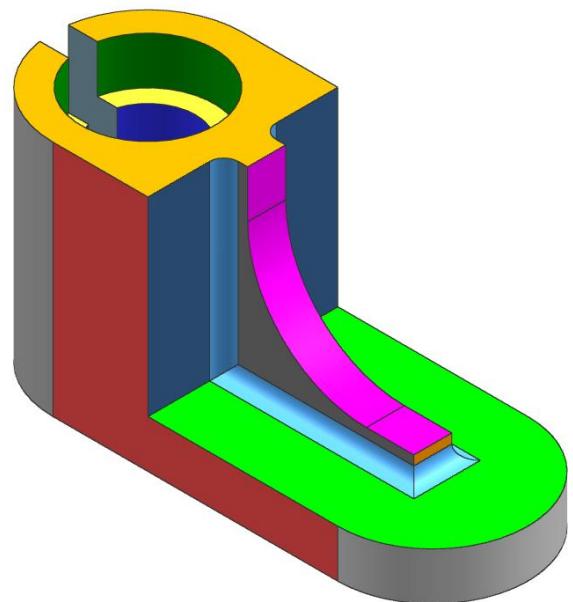
EXERCISE-107



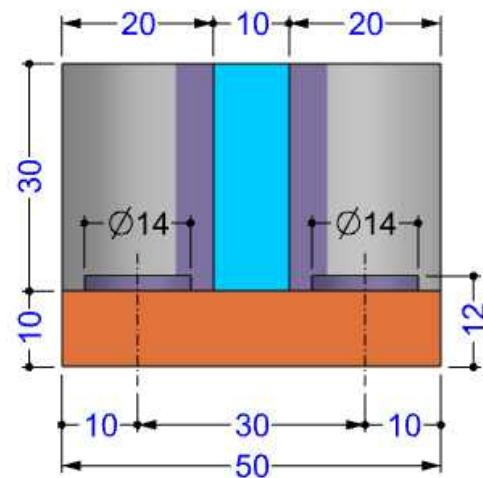
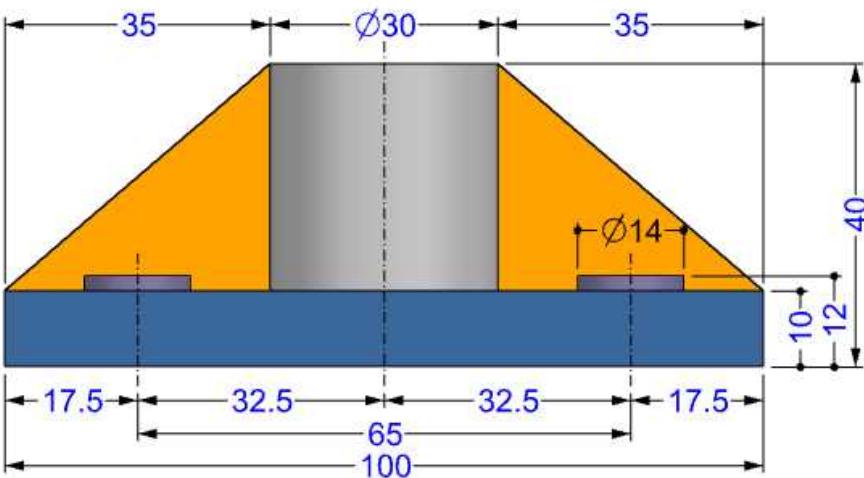
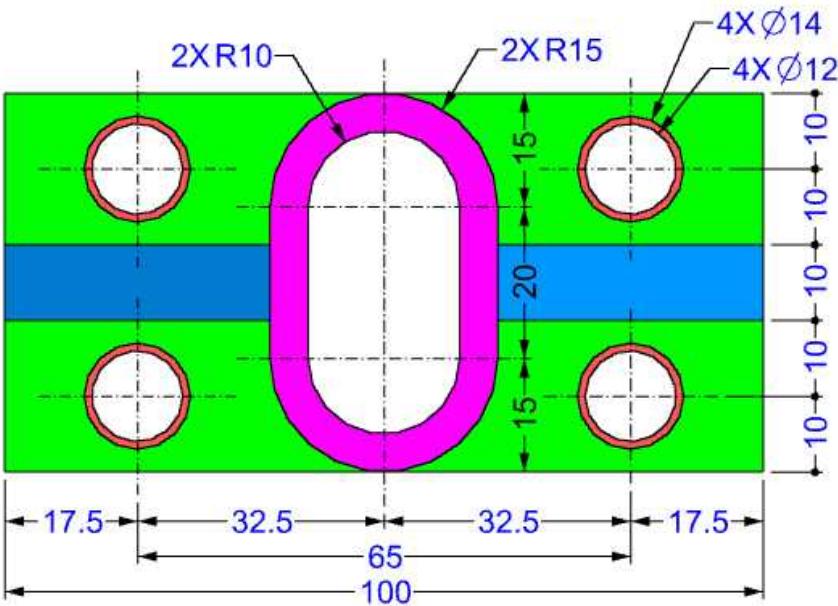
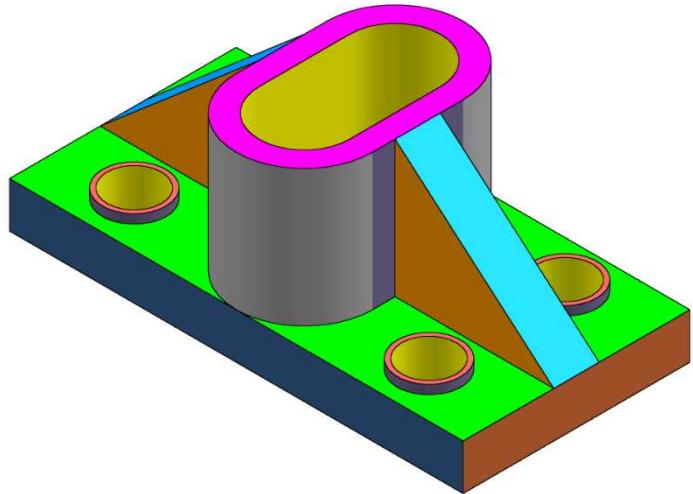
EXERCISE-108



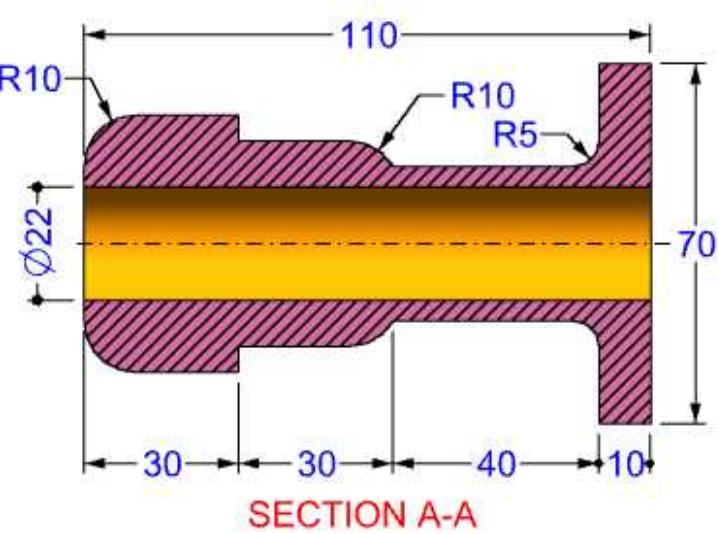
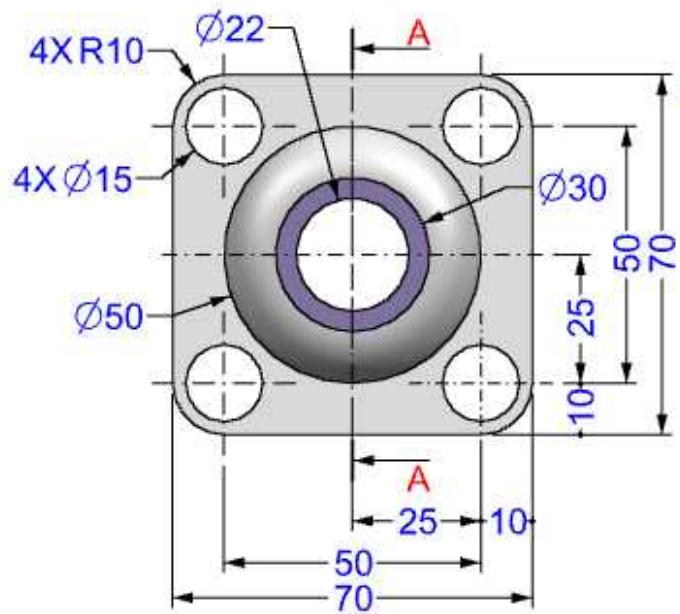
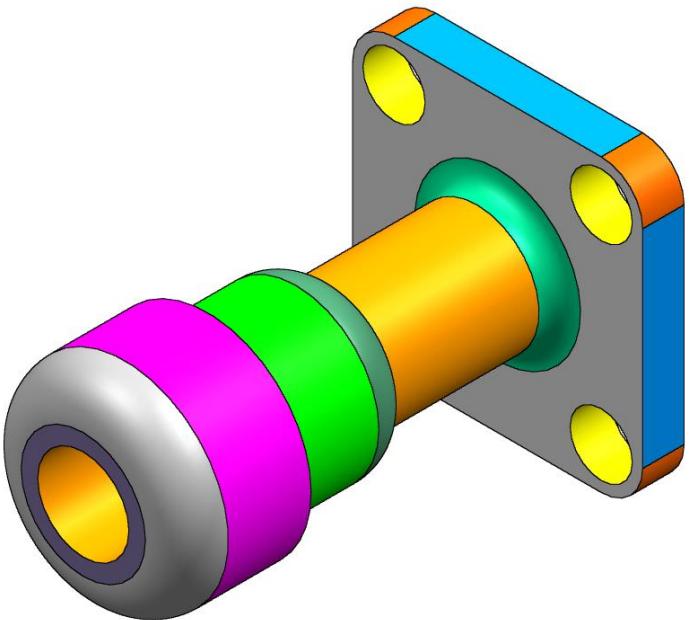
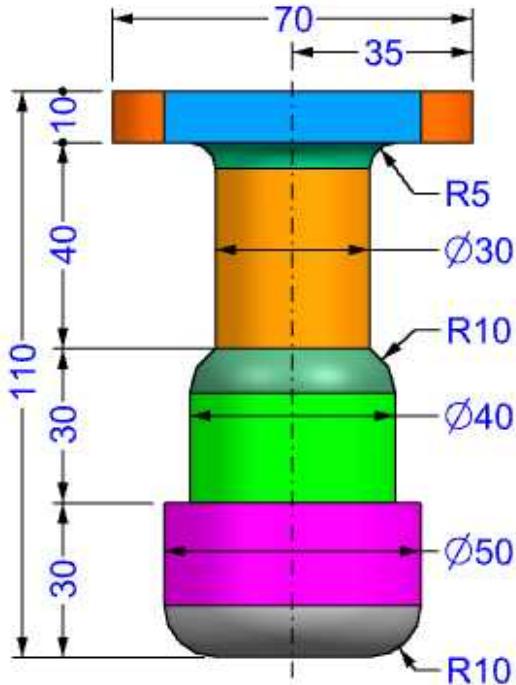
EXERCISE-109



EXERCISE-110

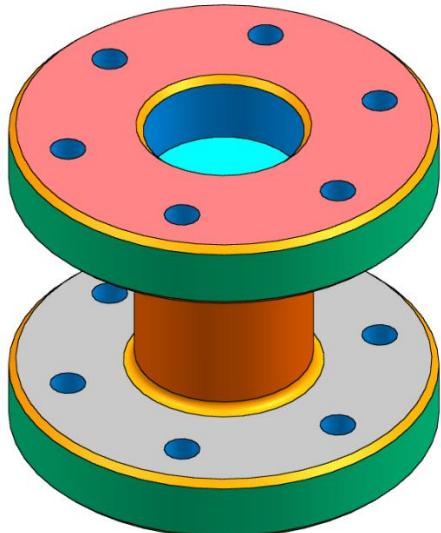
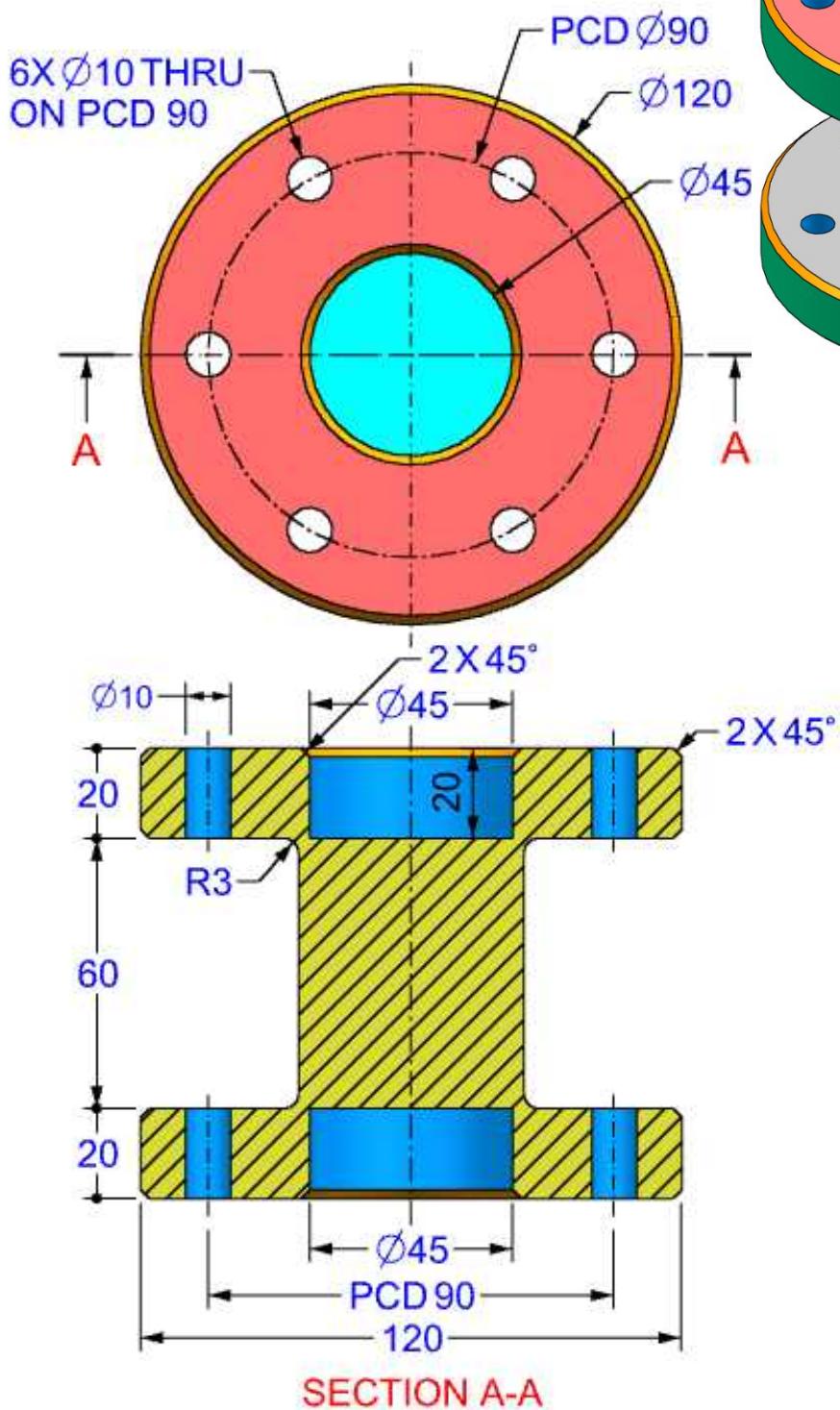


EXERCISE-111

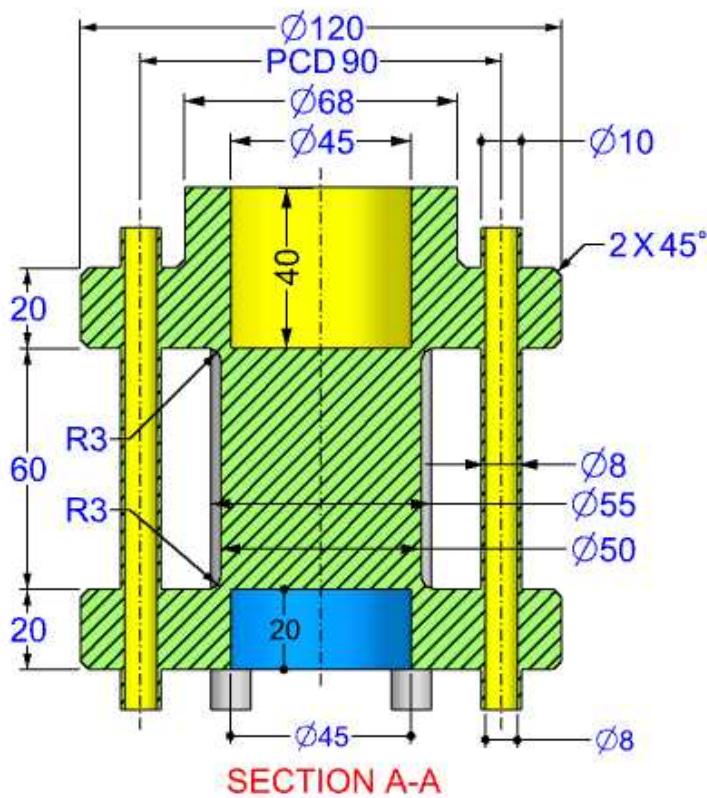
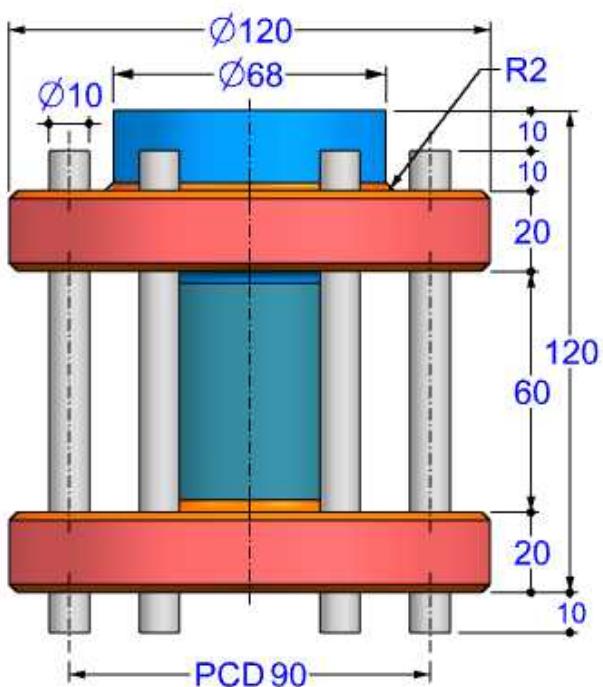
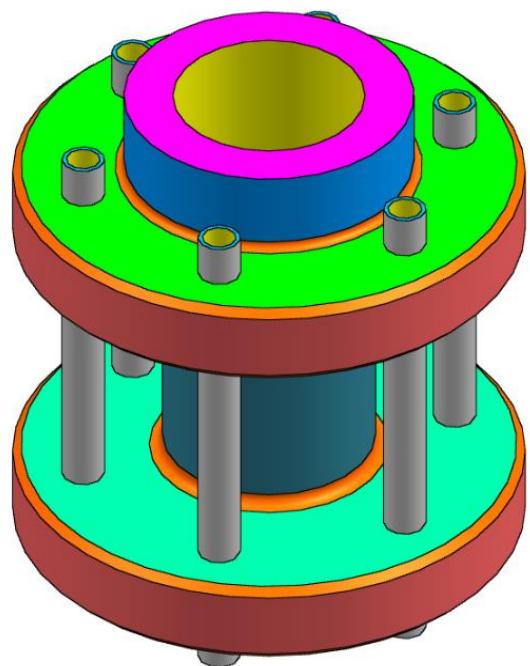
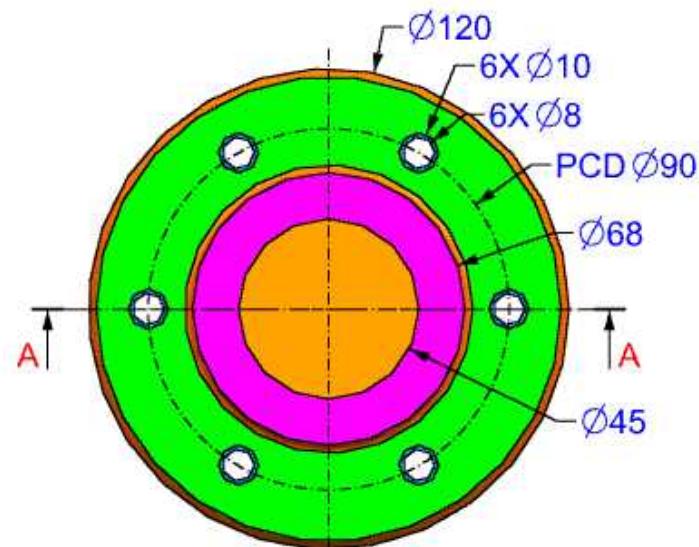


SECTION A-A

EXERCISE-112

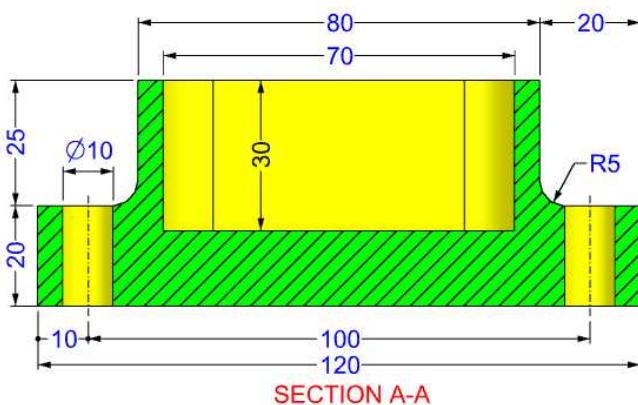
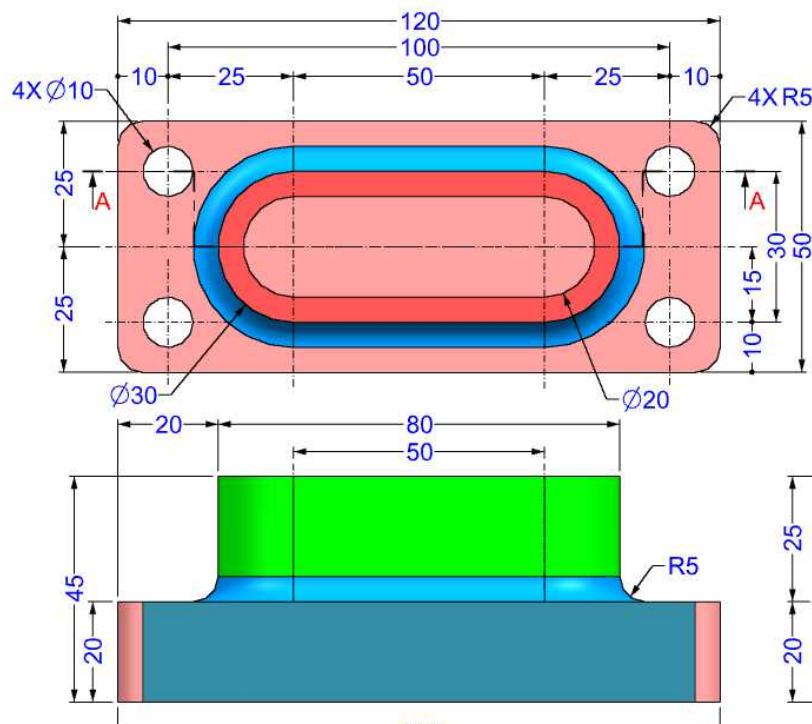
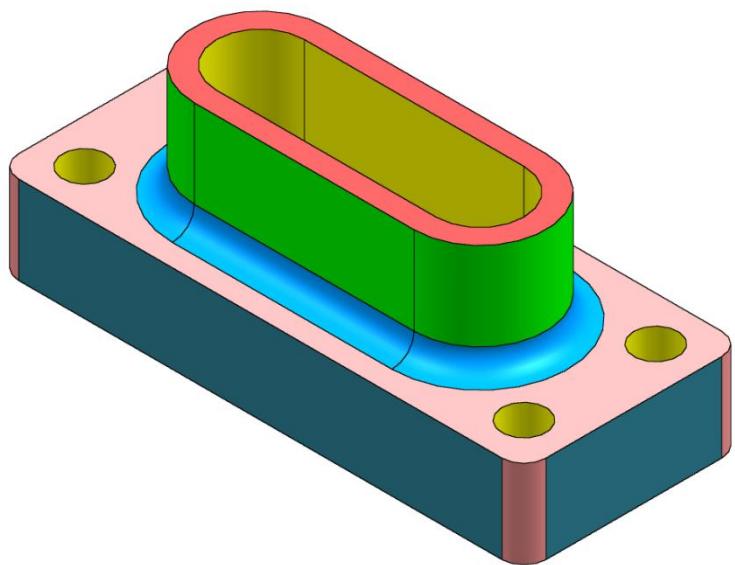


EXERCISE-113

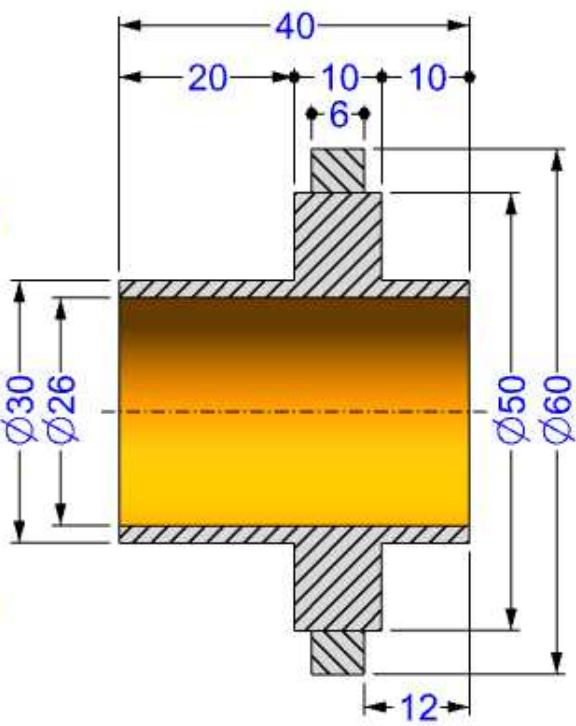
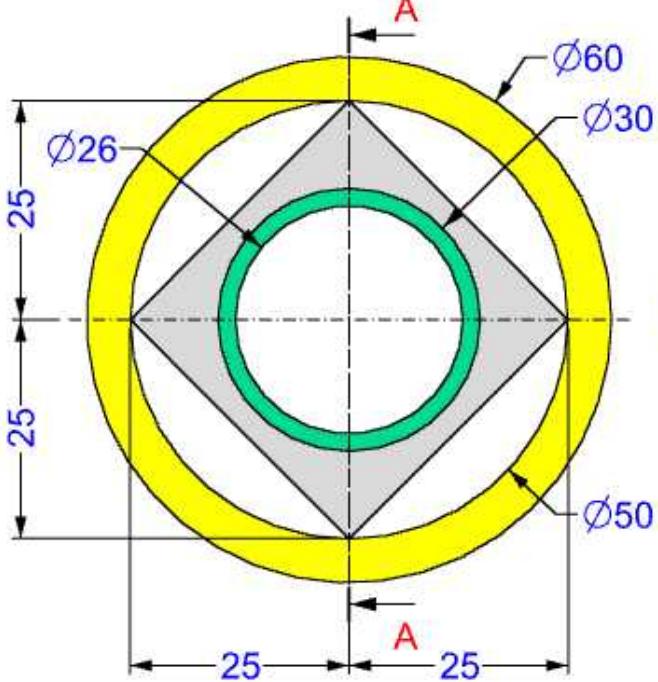
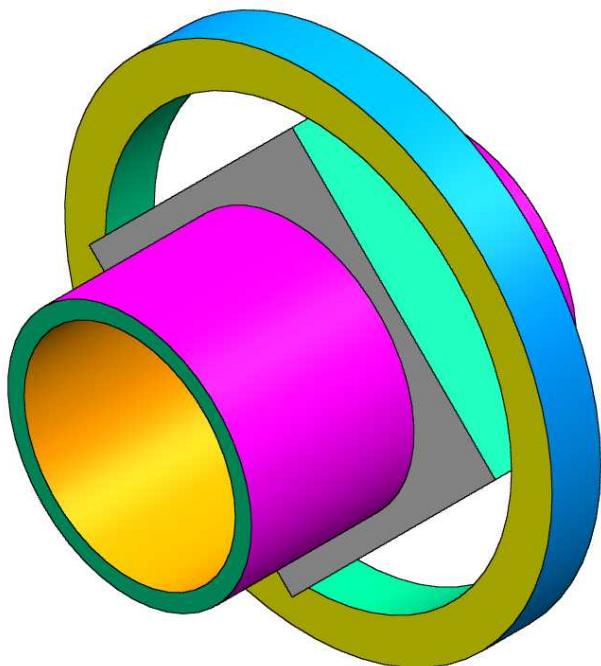
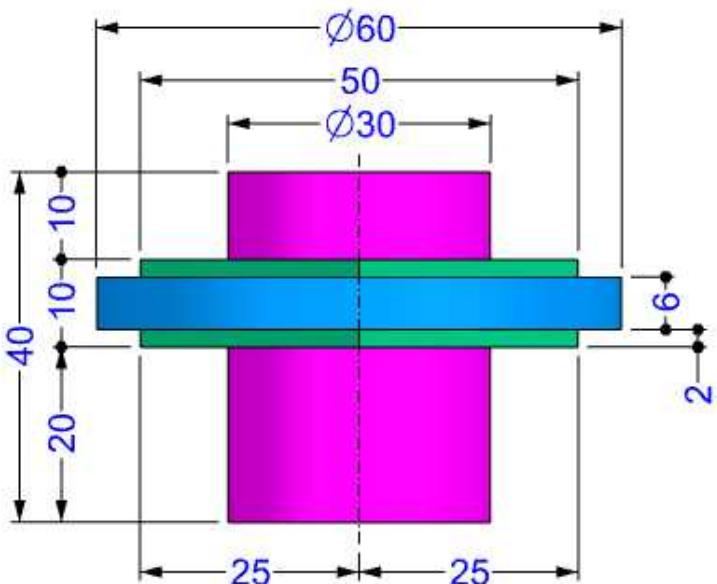


SECTION A-A

EXERCISE-114

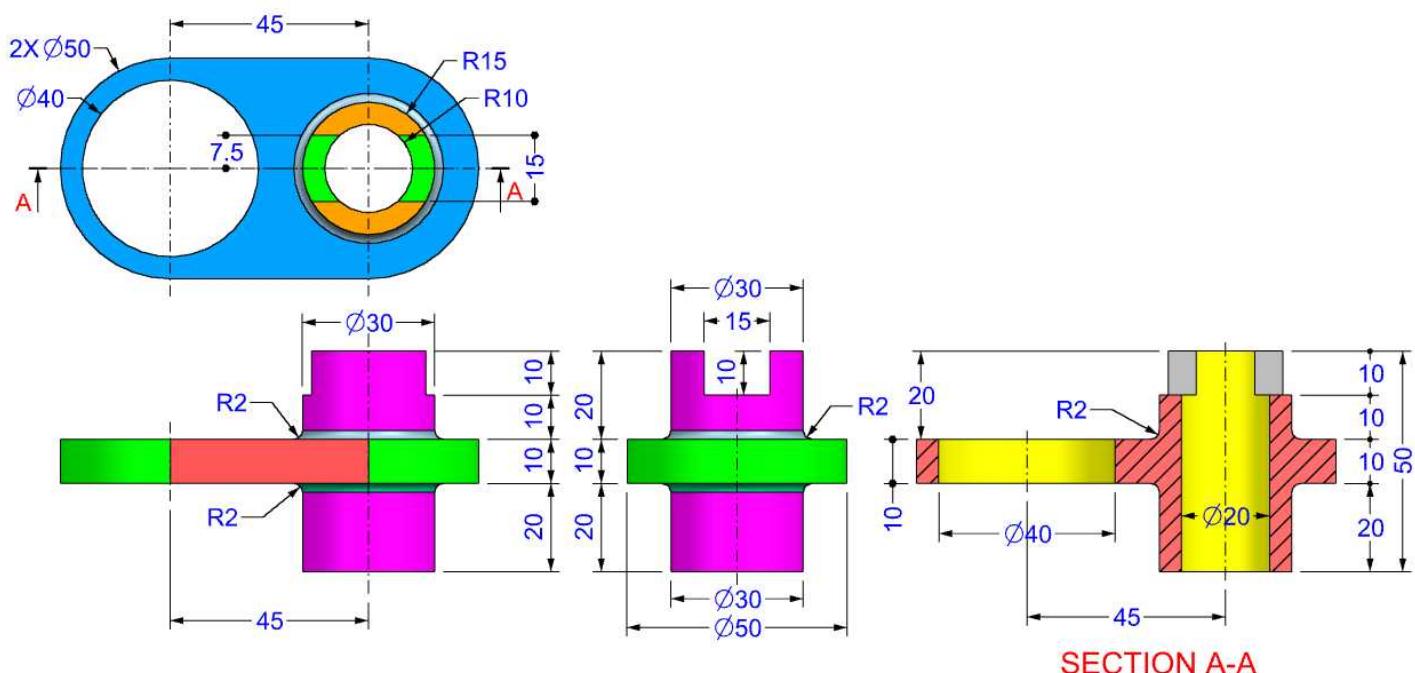
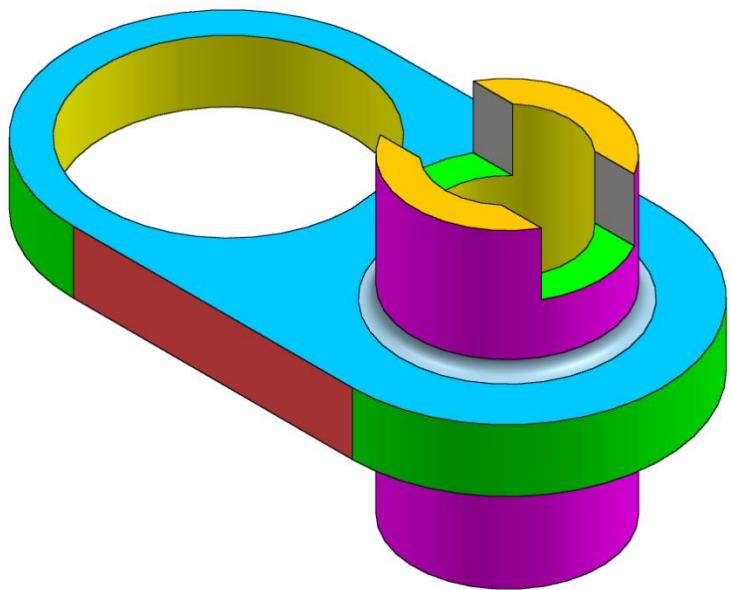


EXERCISE-115

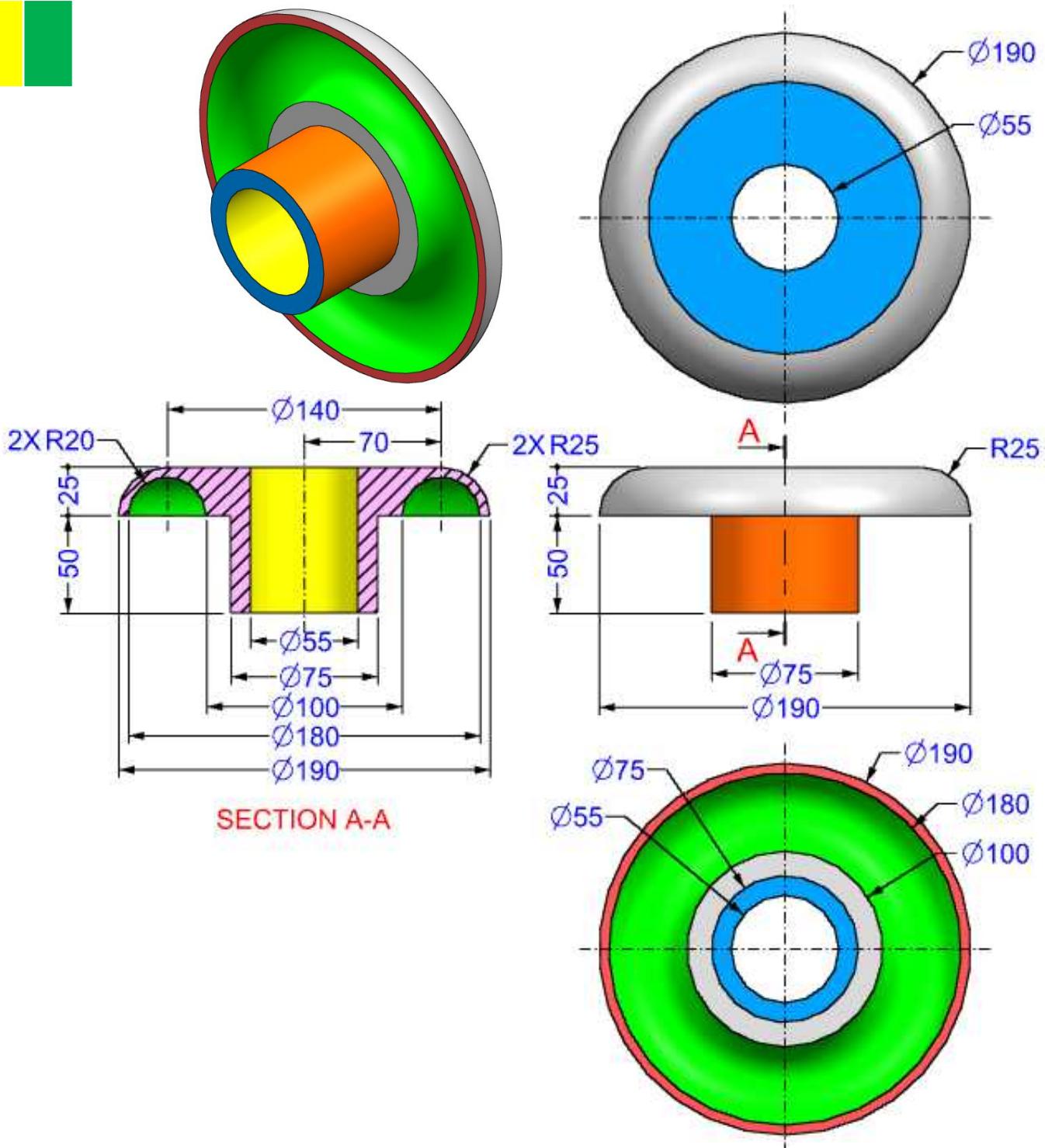


SECTION A-A

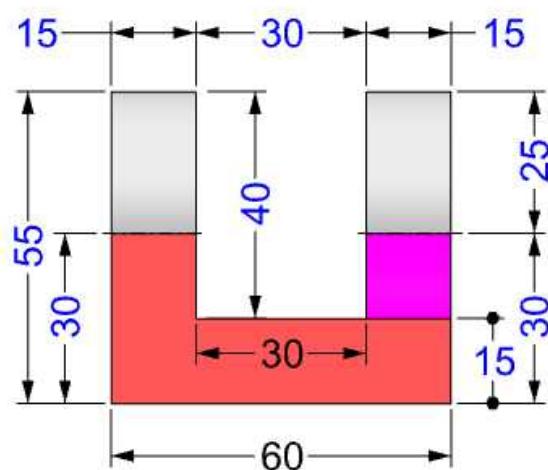
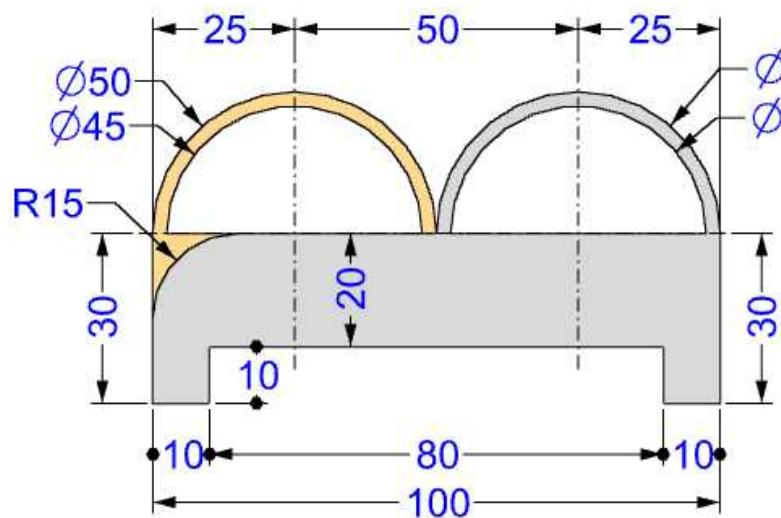
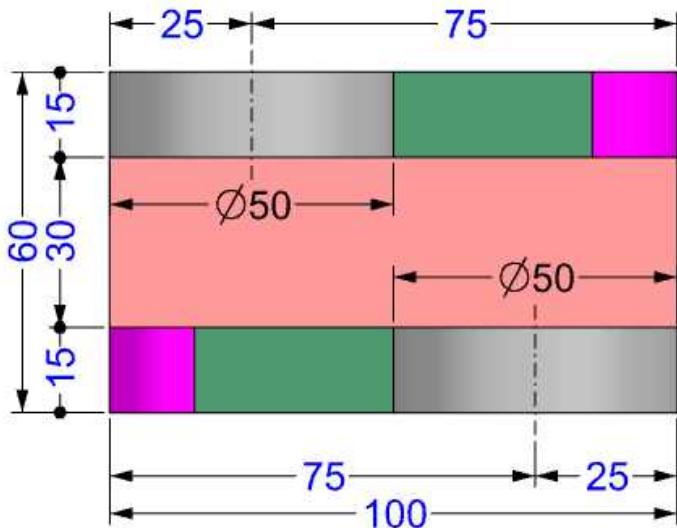
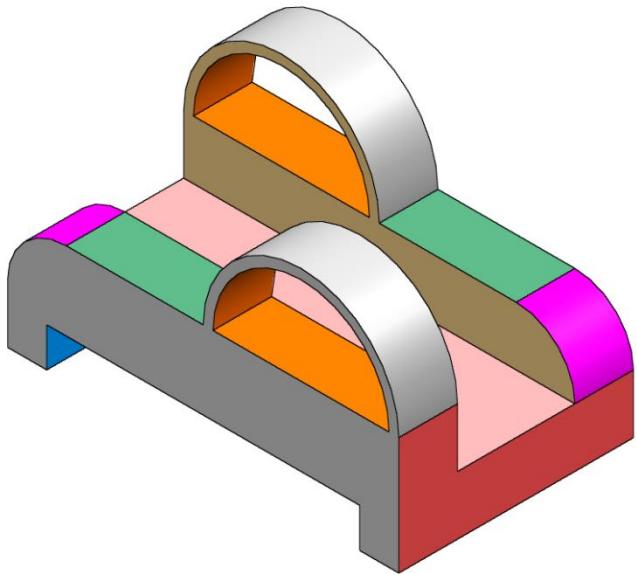
EXERCISE-116



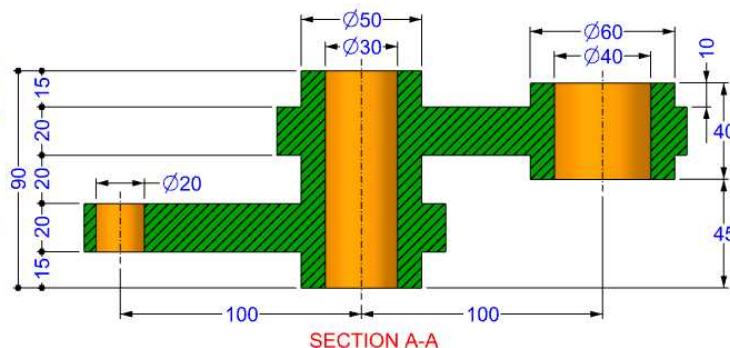
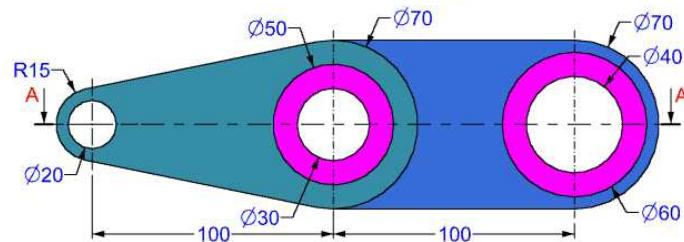
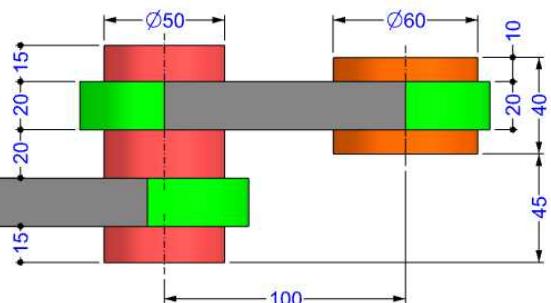
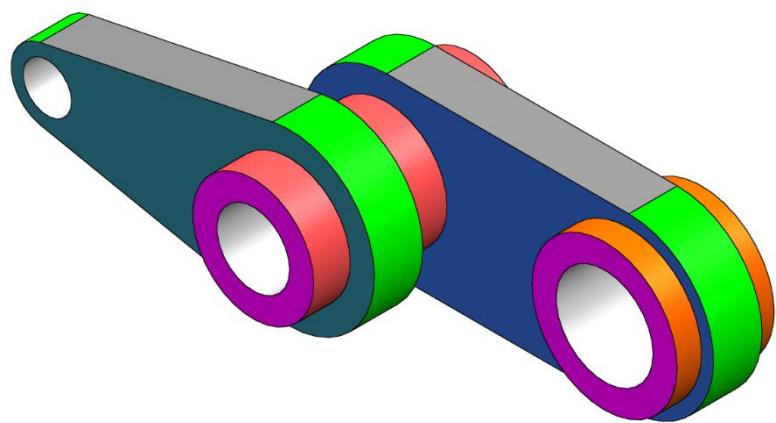
EXERCISE-117



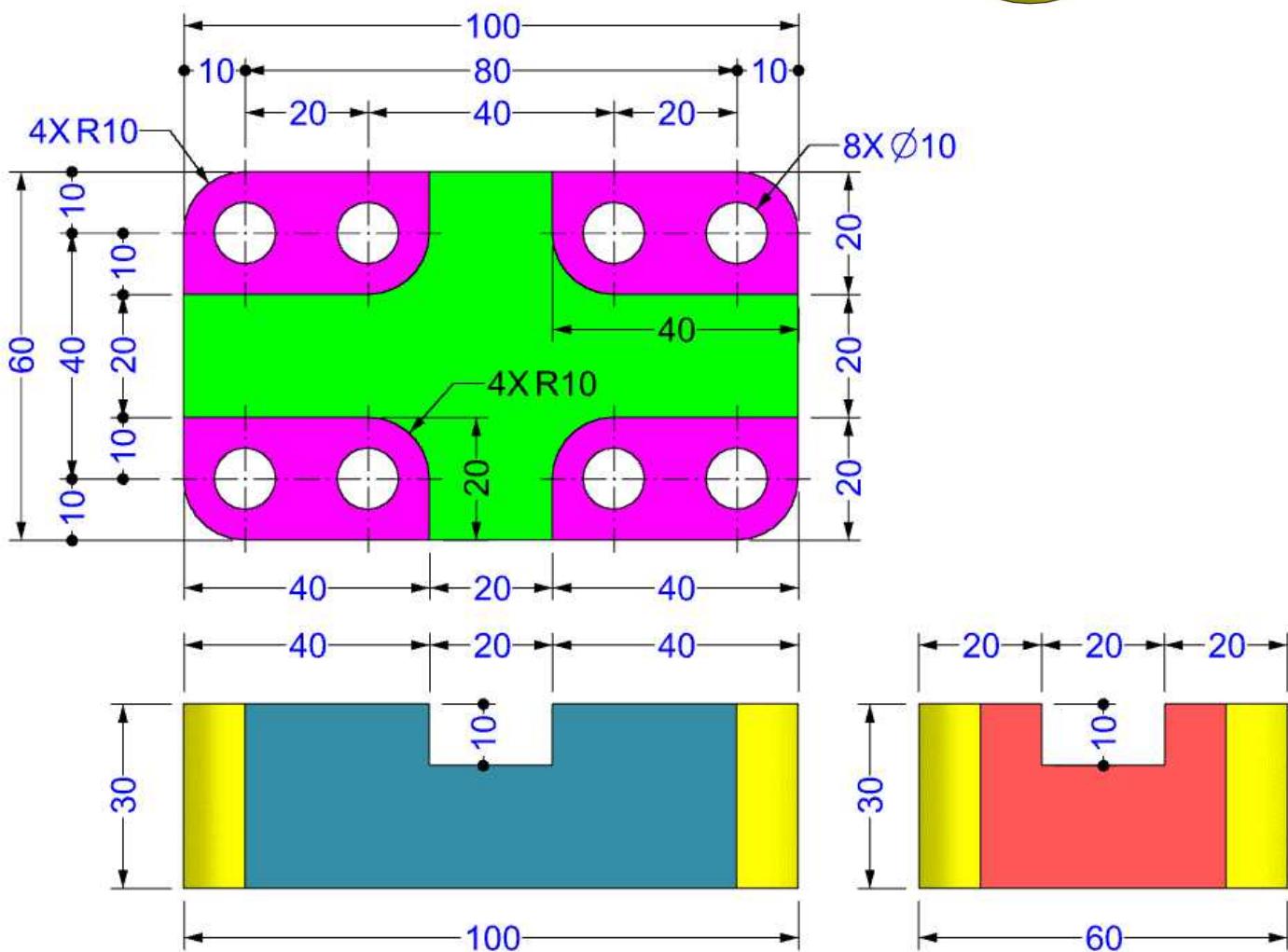
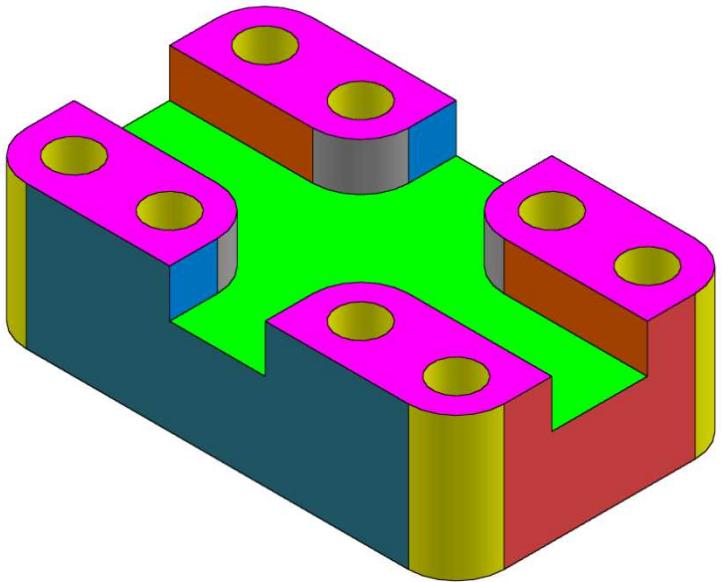
EXERCISE-118



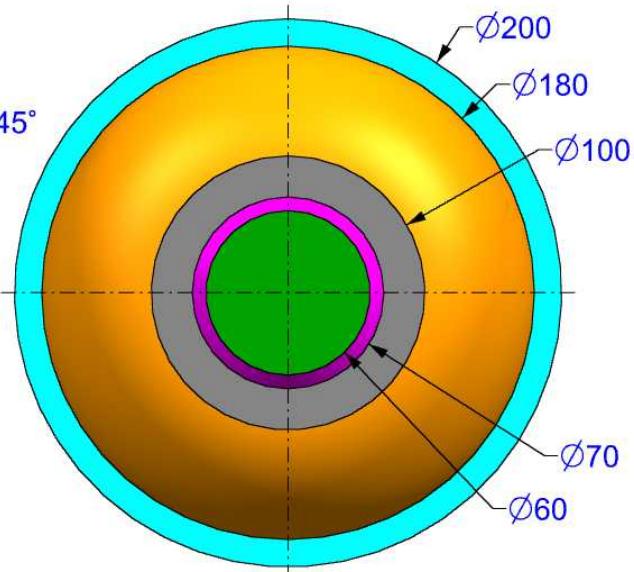
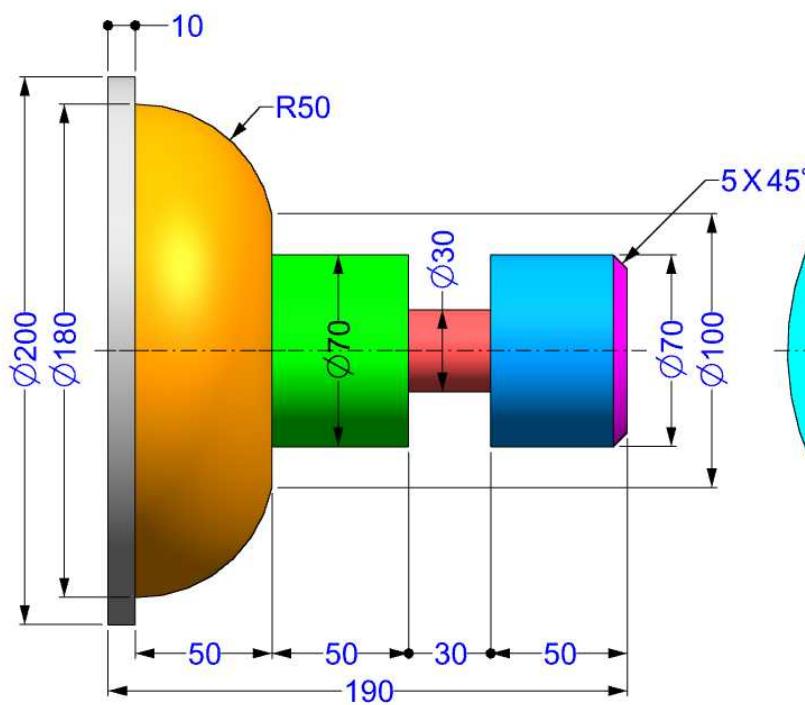
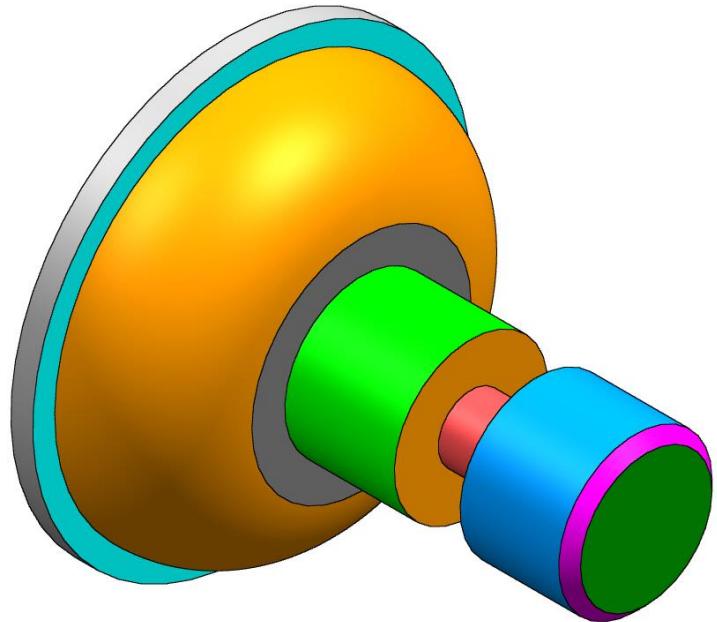
EXERCISE-119



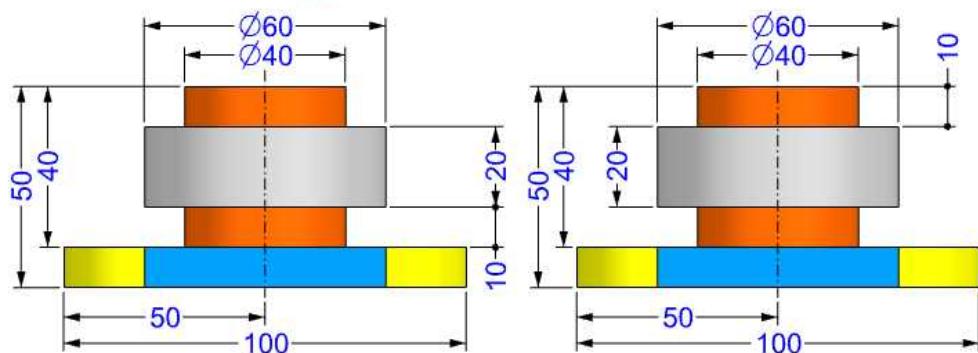
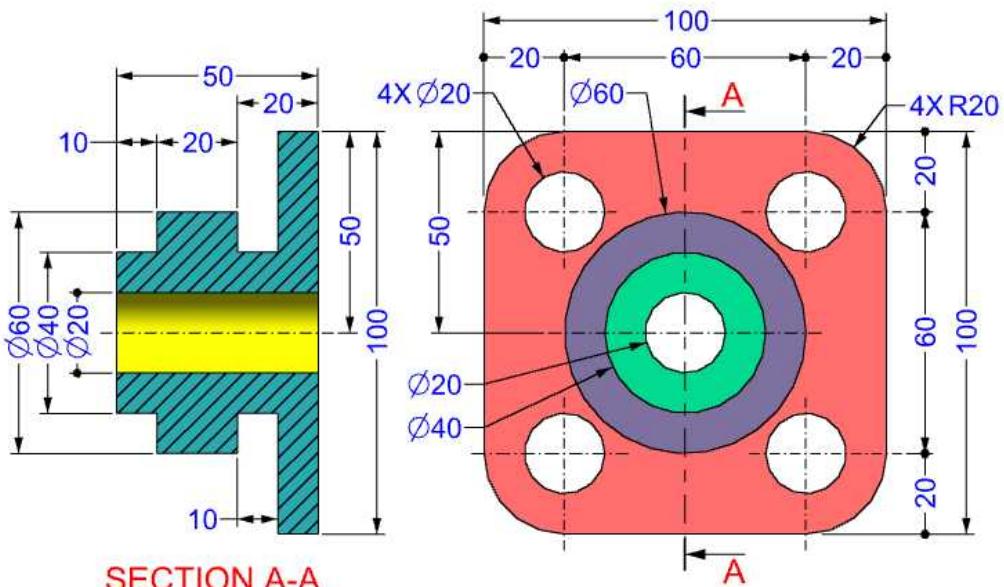
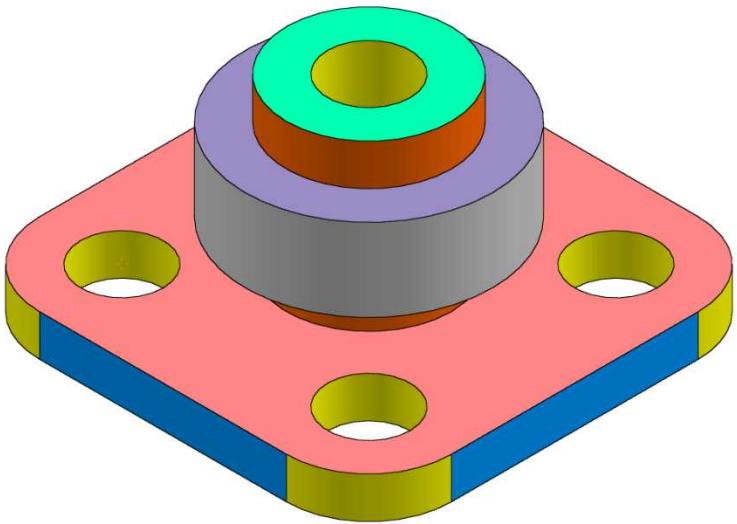
EXERCISE-120



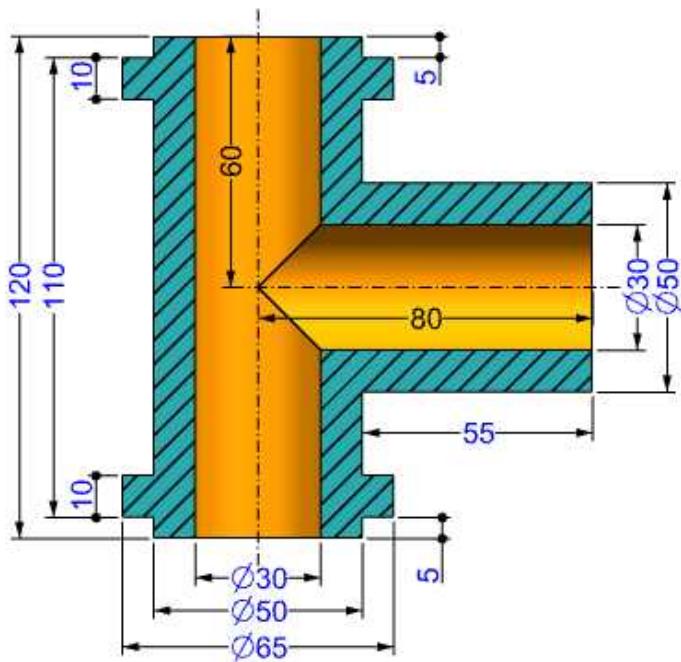
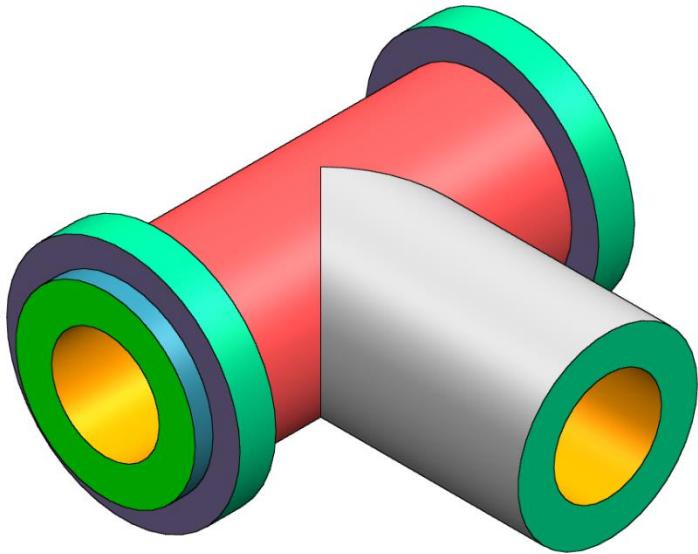
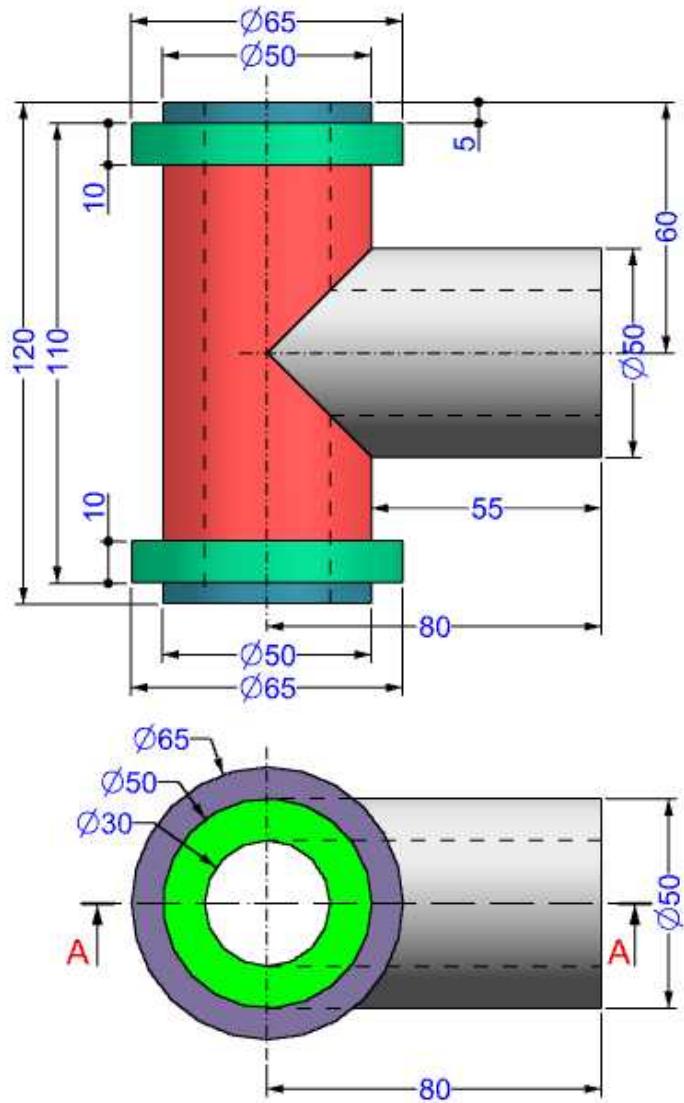
EXERCISE-121



EXERCISE-122

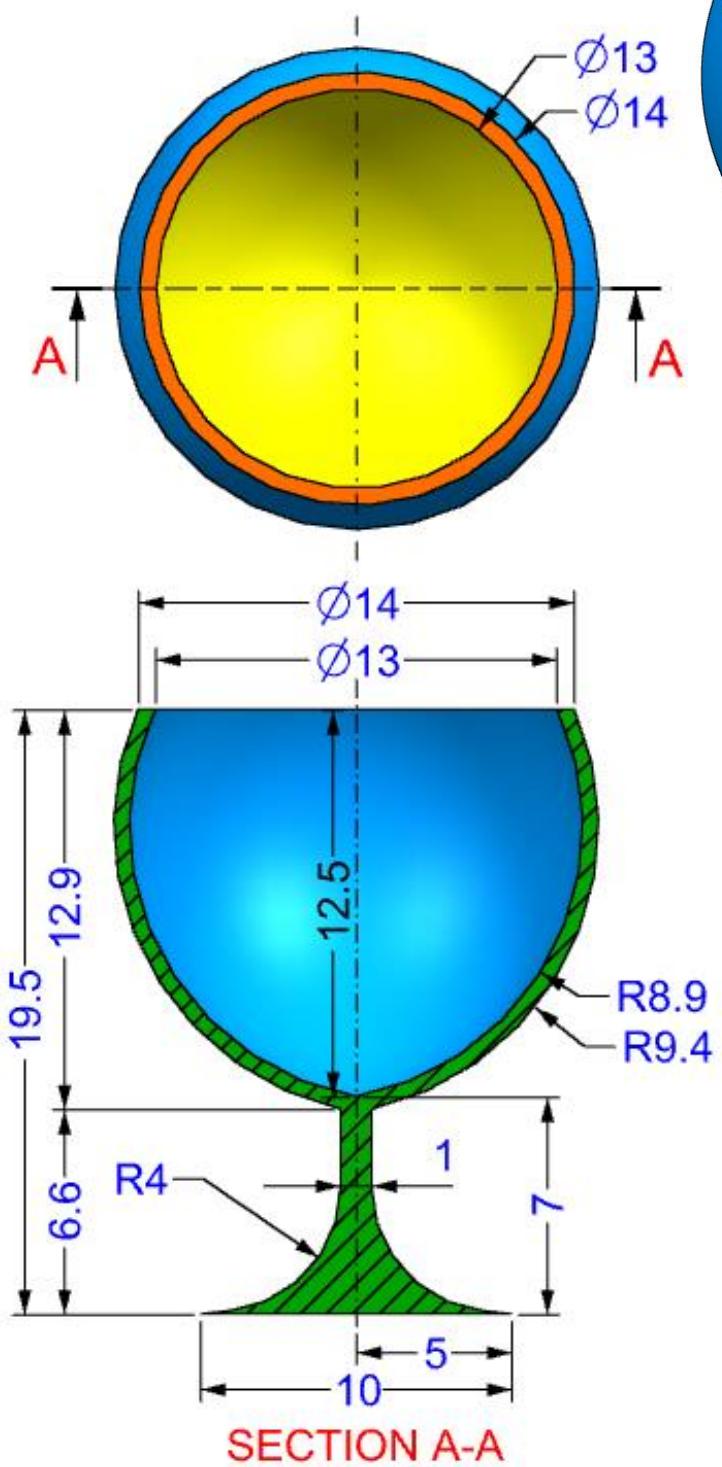


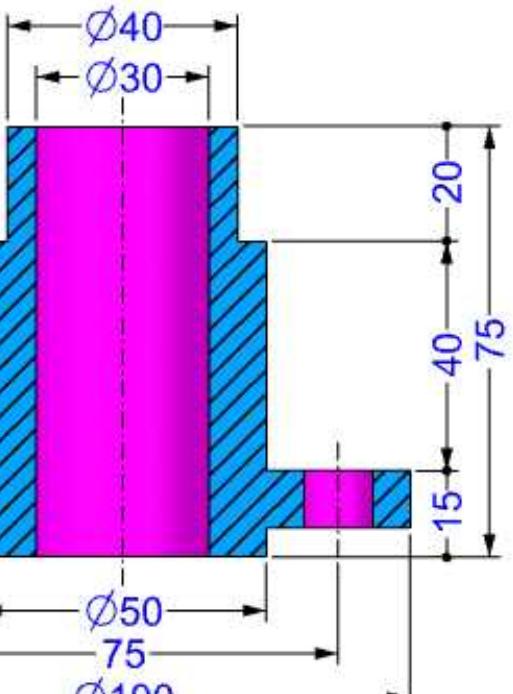
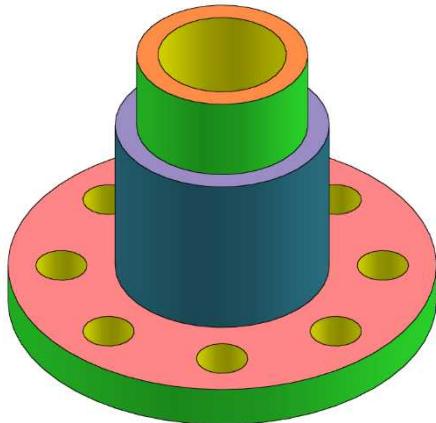
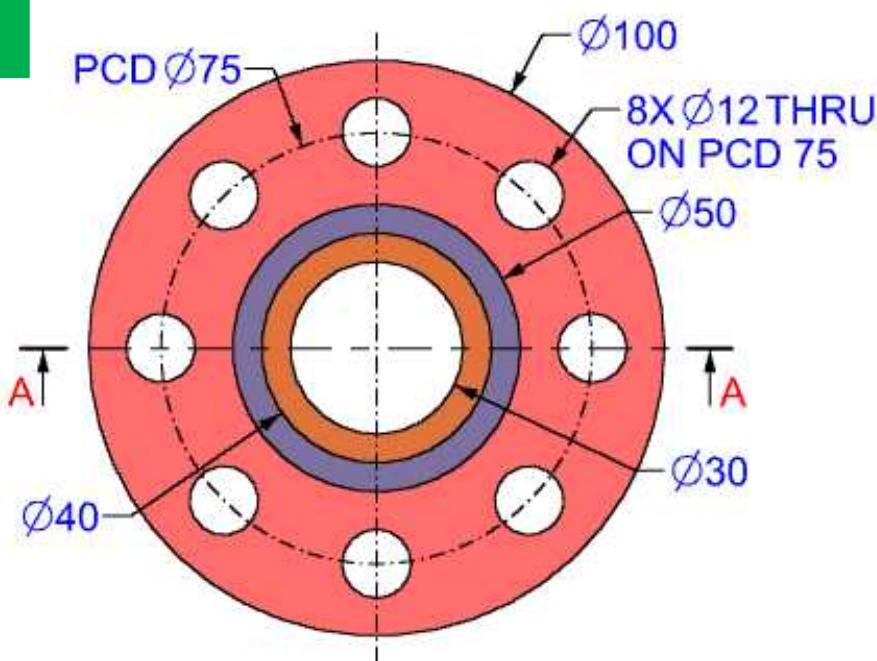
EXERCISE-123



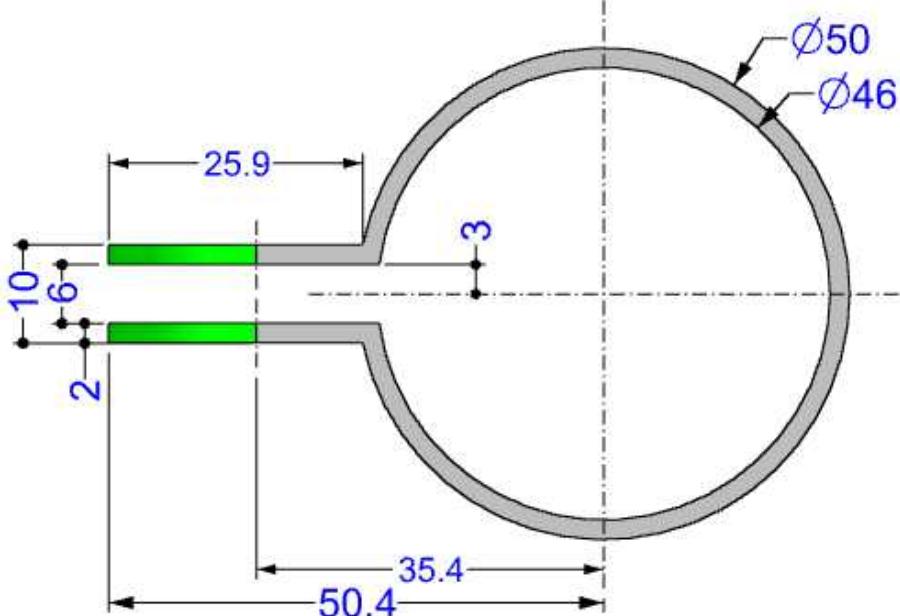
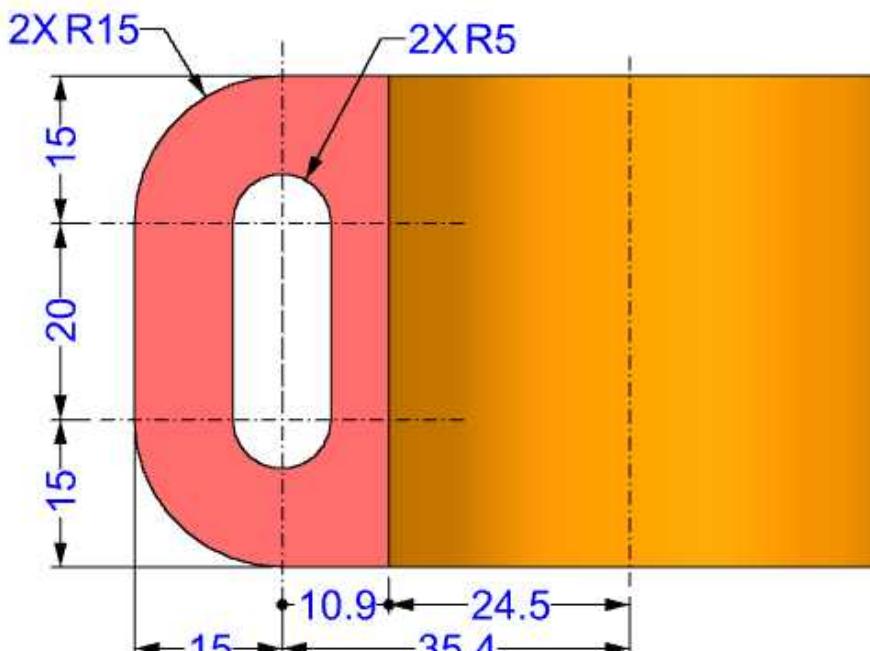
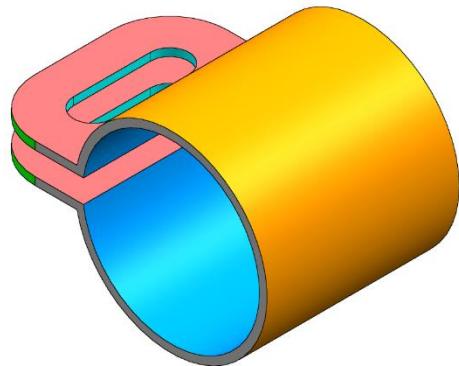
SECTION A-A

EXERCISE-124

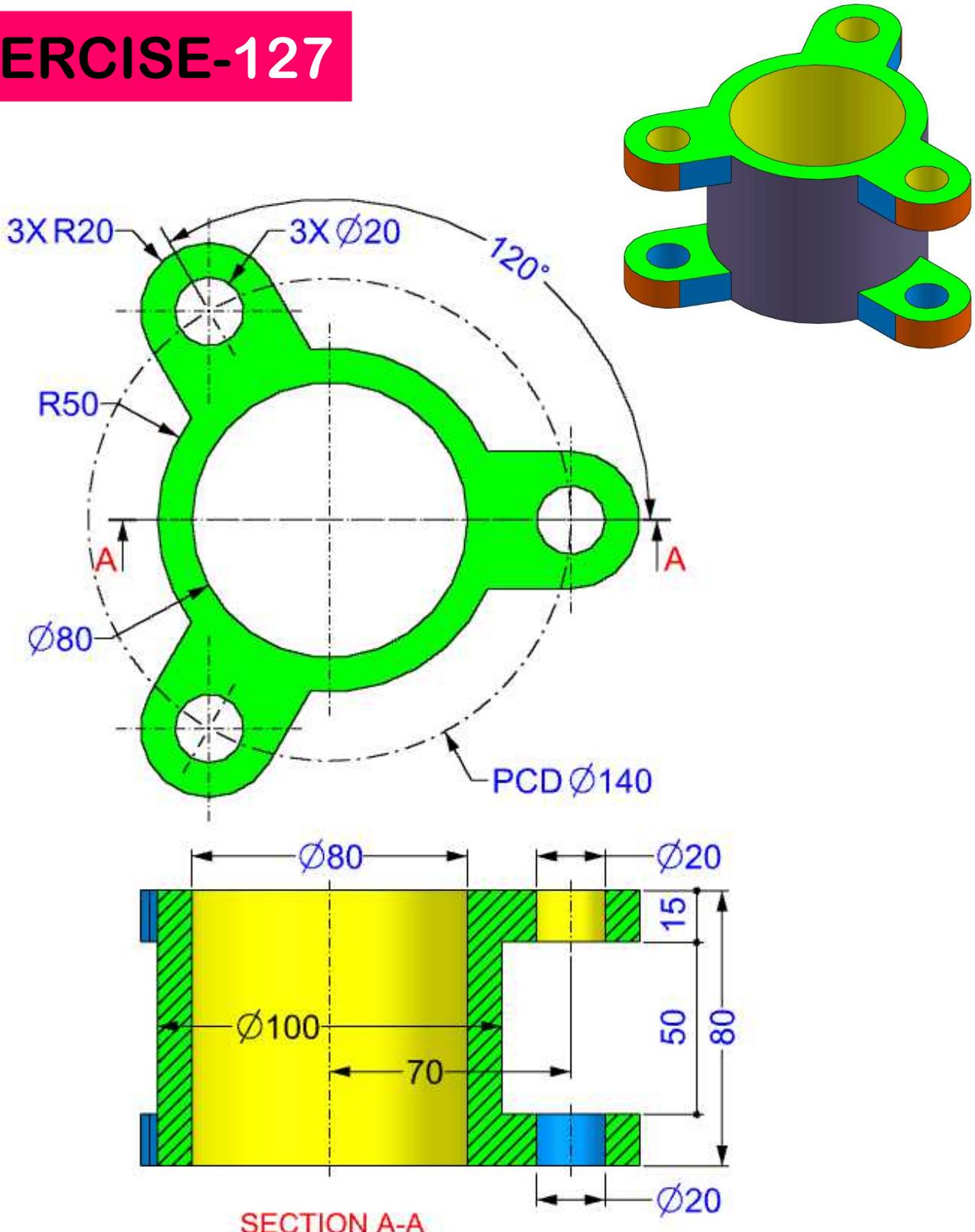


EXERCISE-125**SECTION A-A**

EXERCISE-126

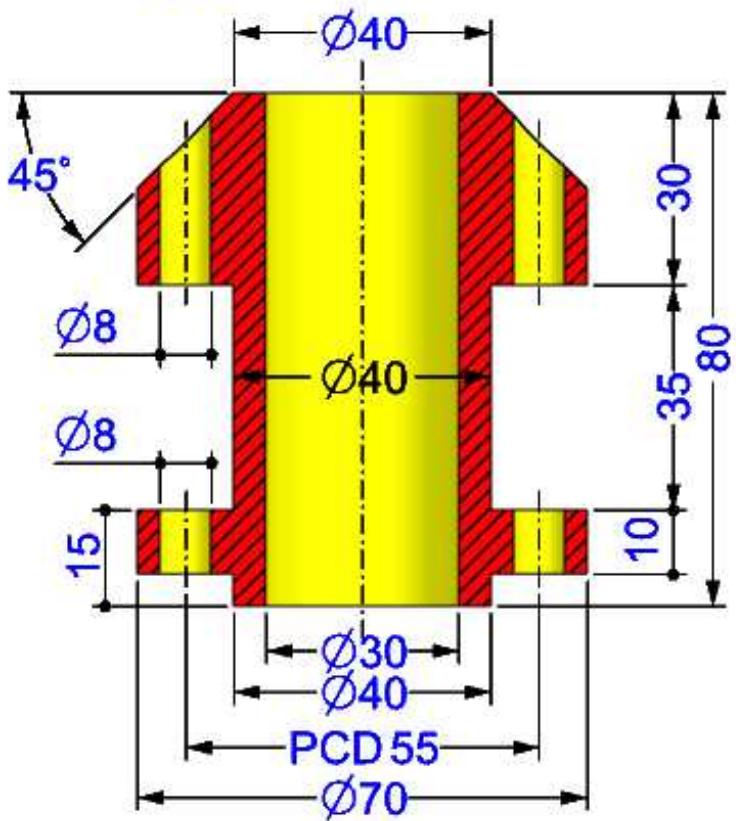
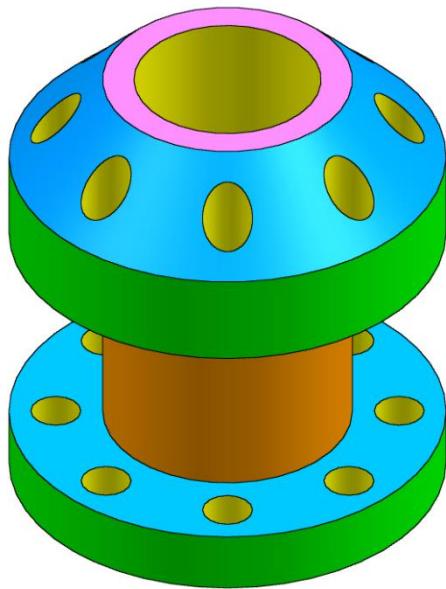
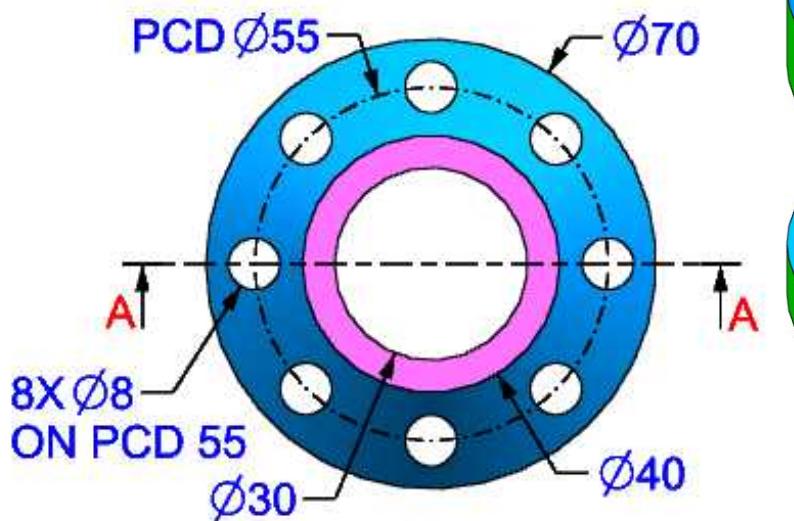


EXERCISE-127



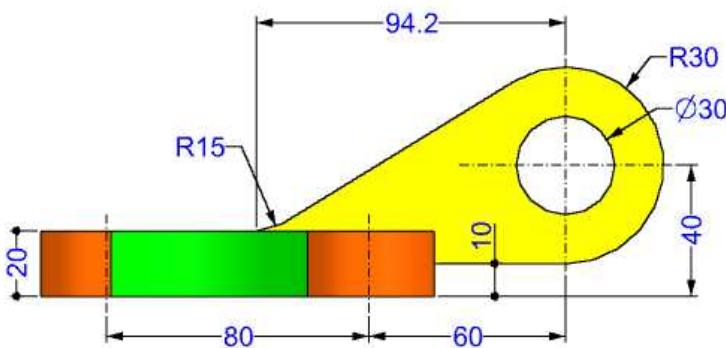
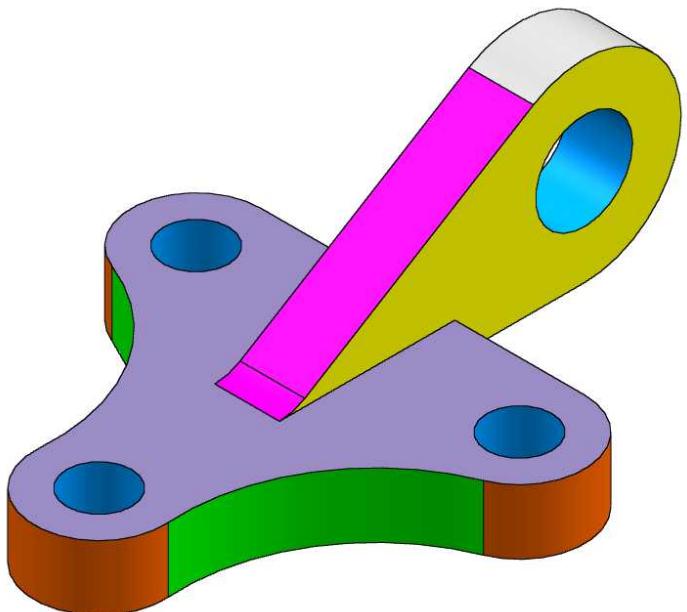
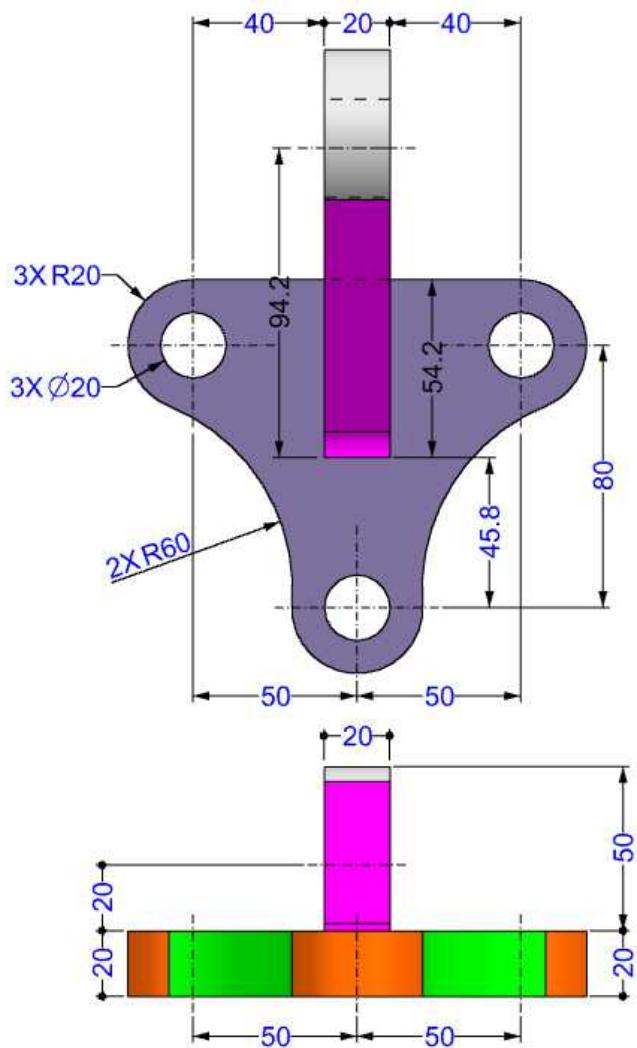
SECTION A-A

EXERCISE-128

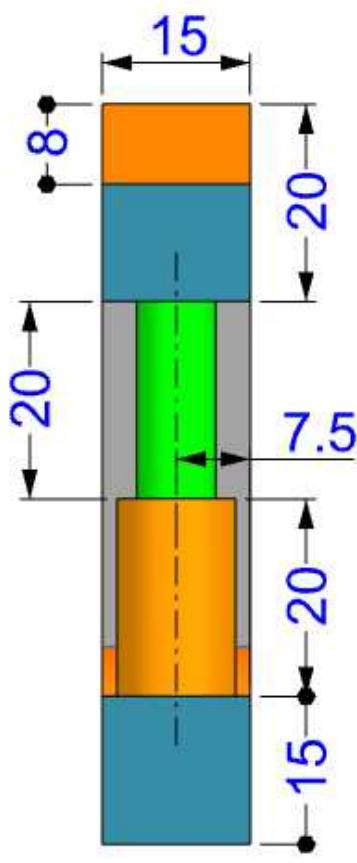
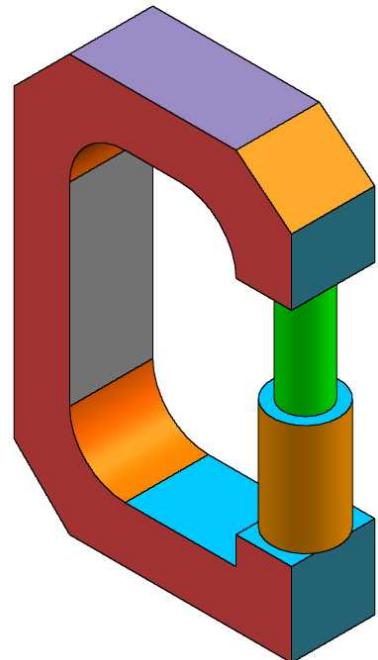
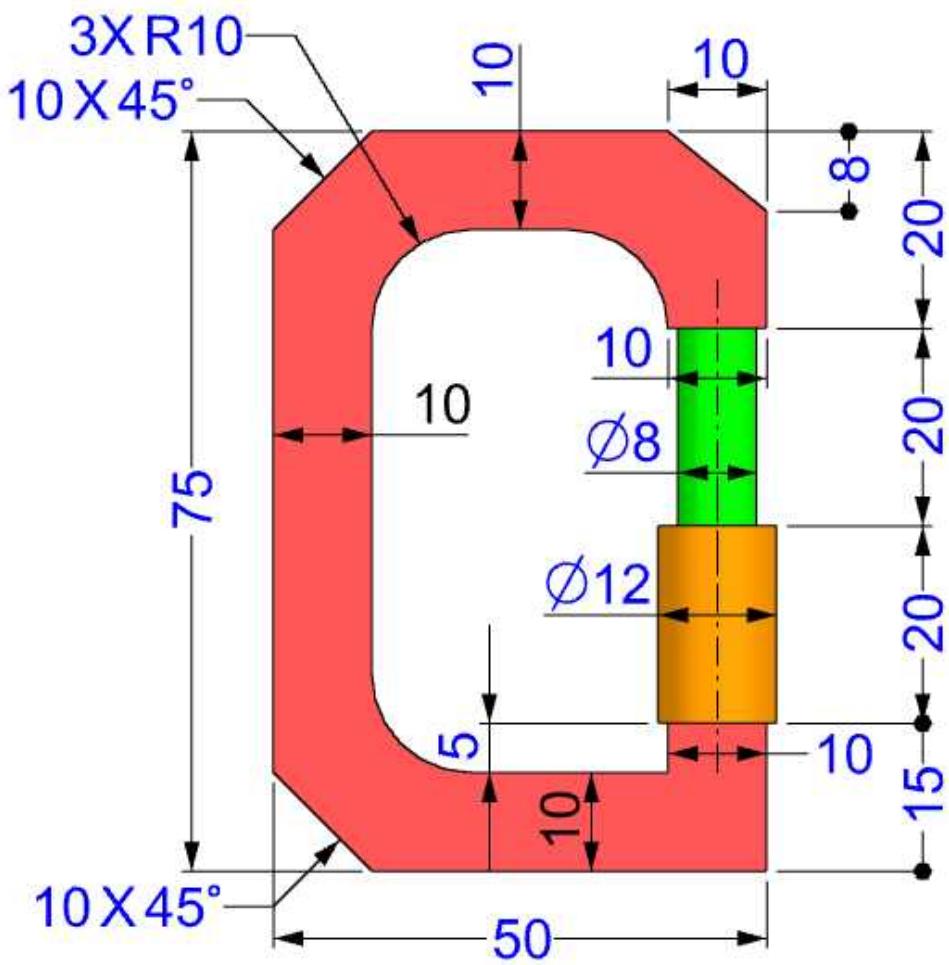
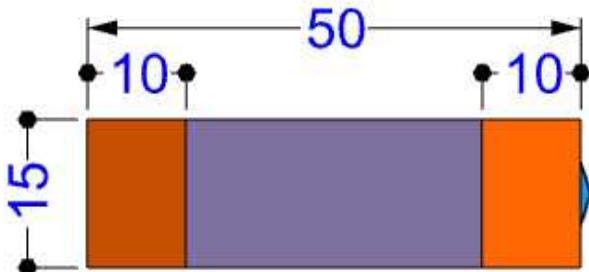


SECTION A-A

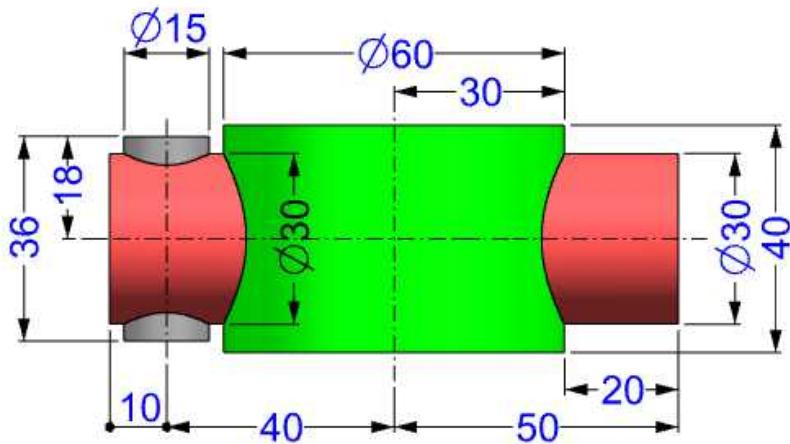
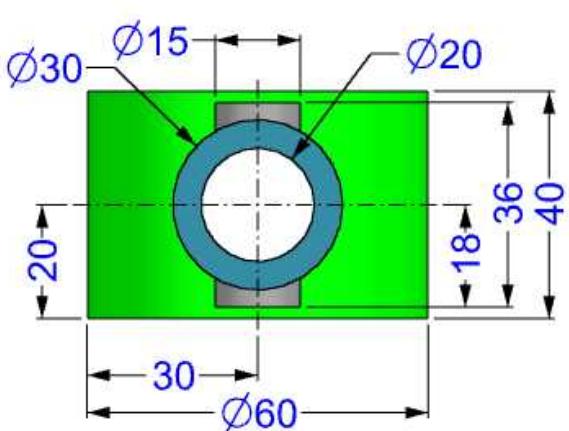
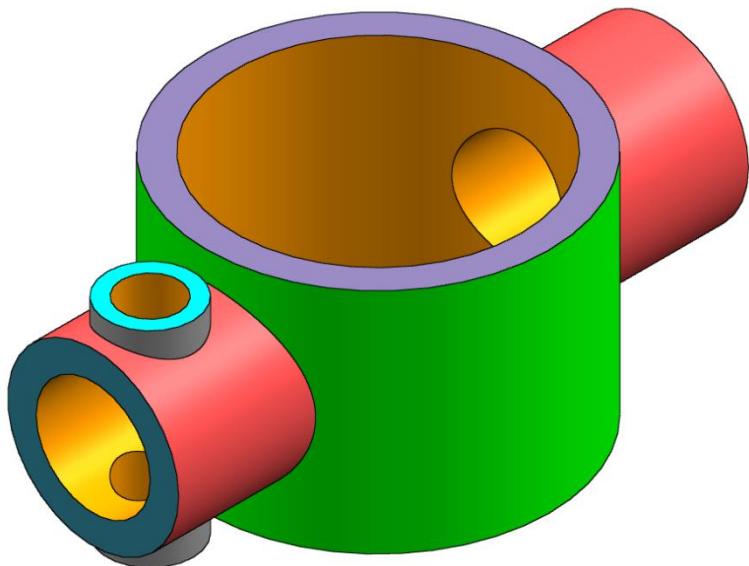
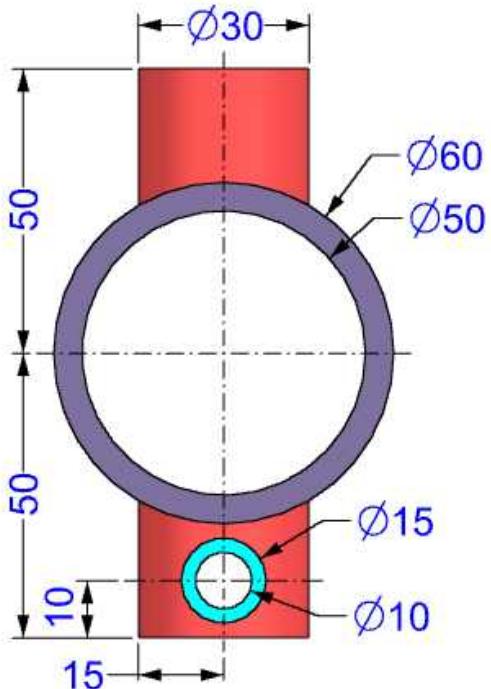
EXERCISE-129



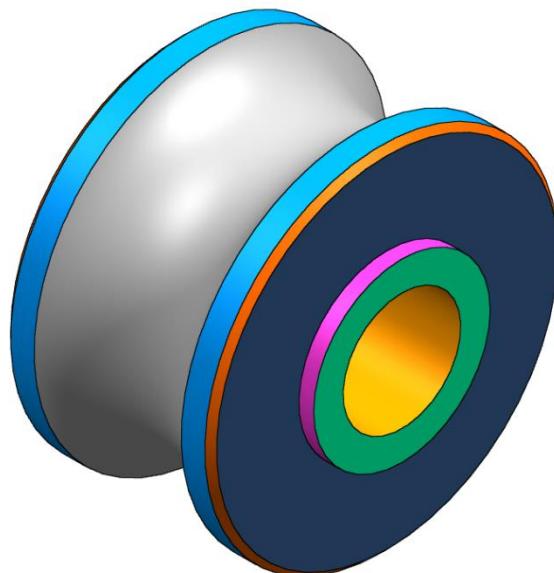
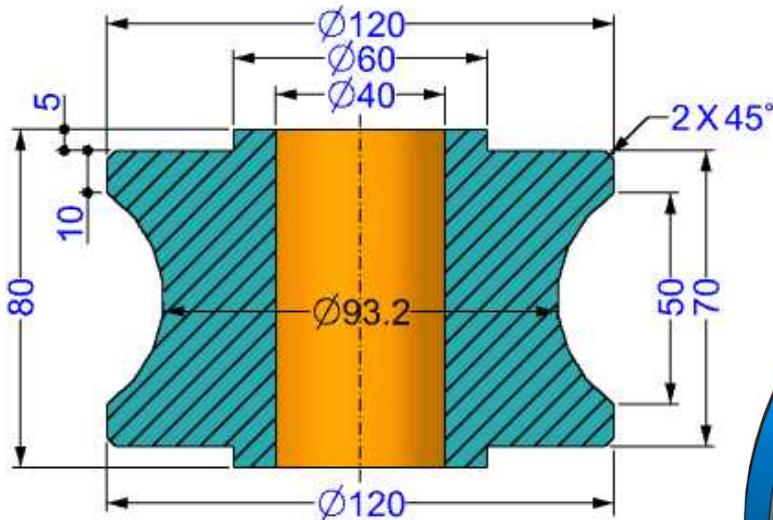
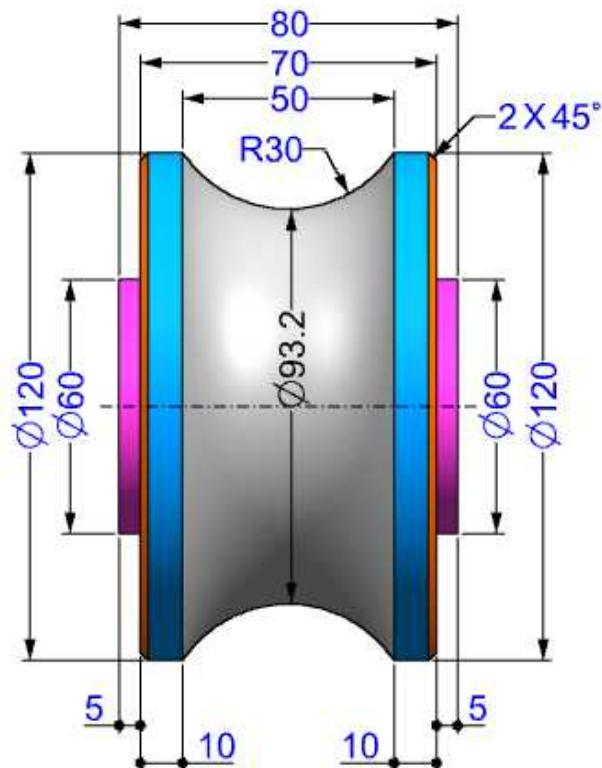
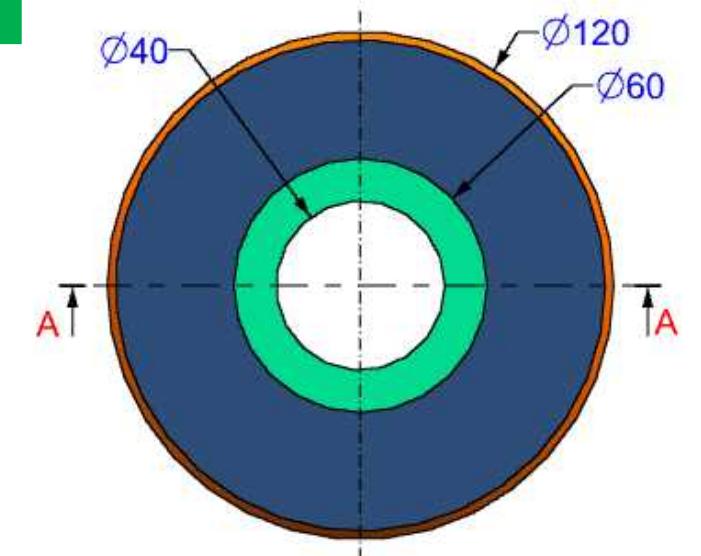
EXERCISE-130



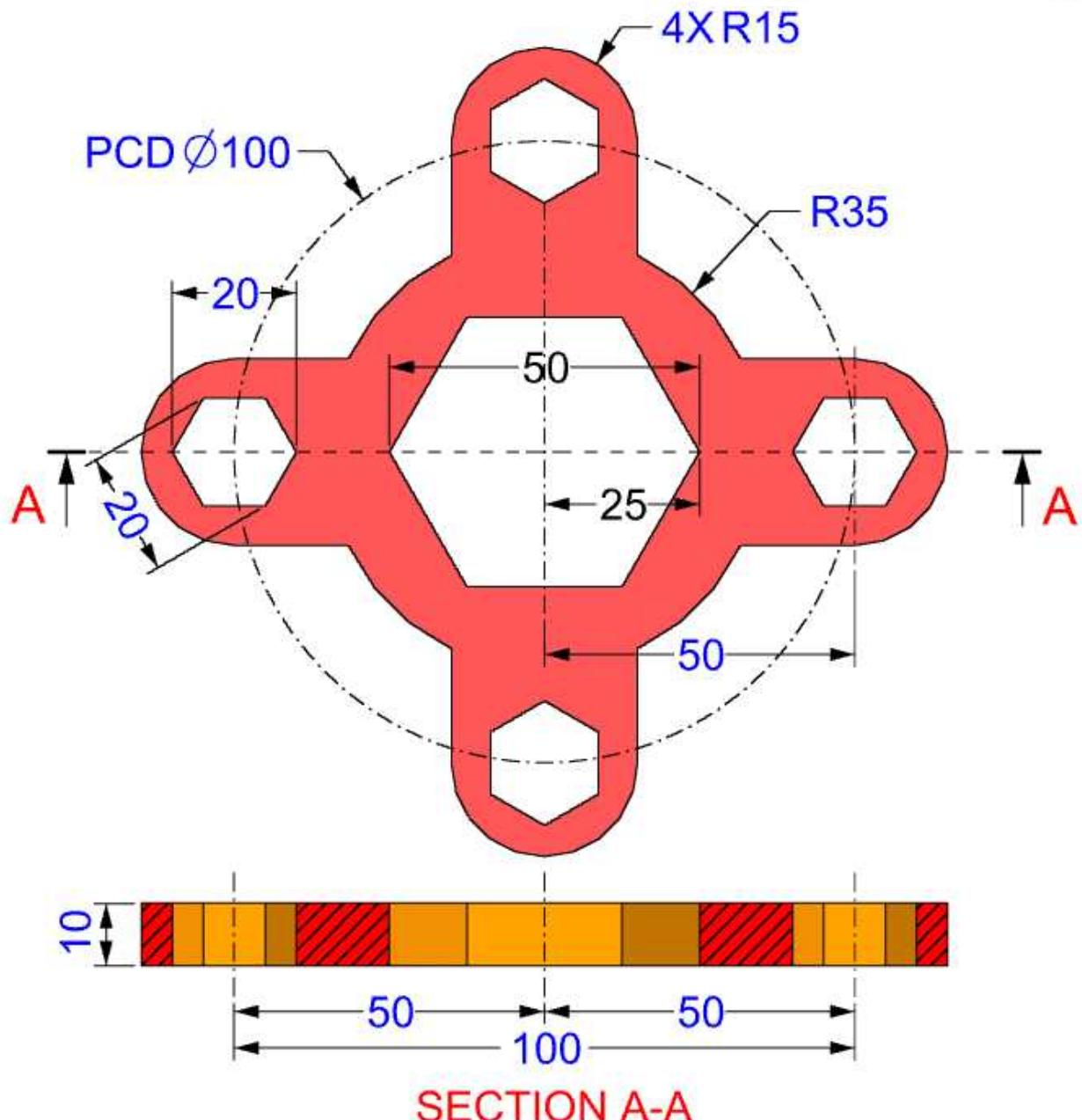
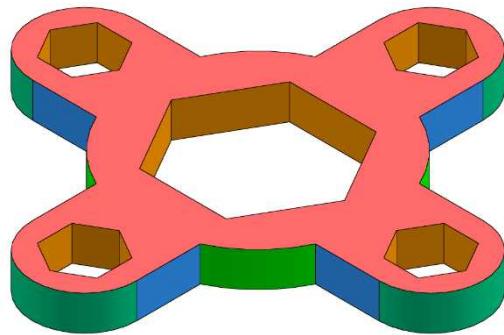
EXERCISE-131



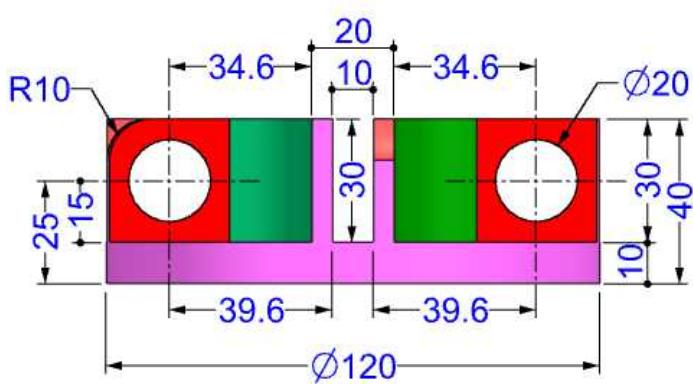
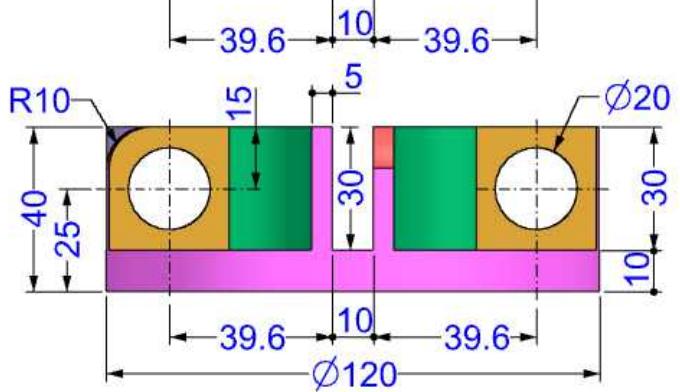
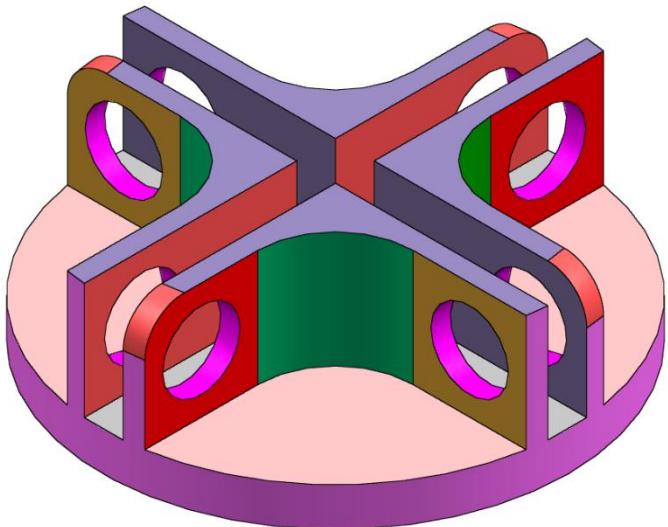
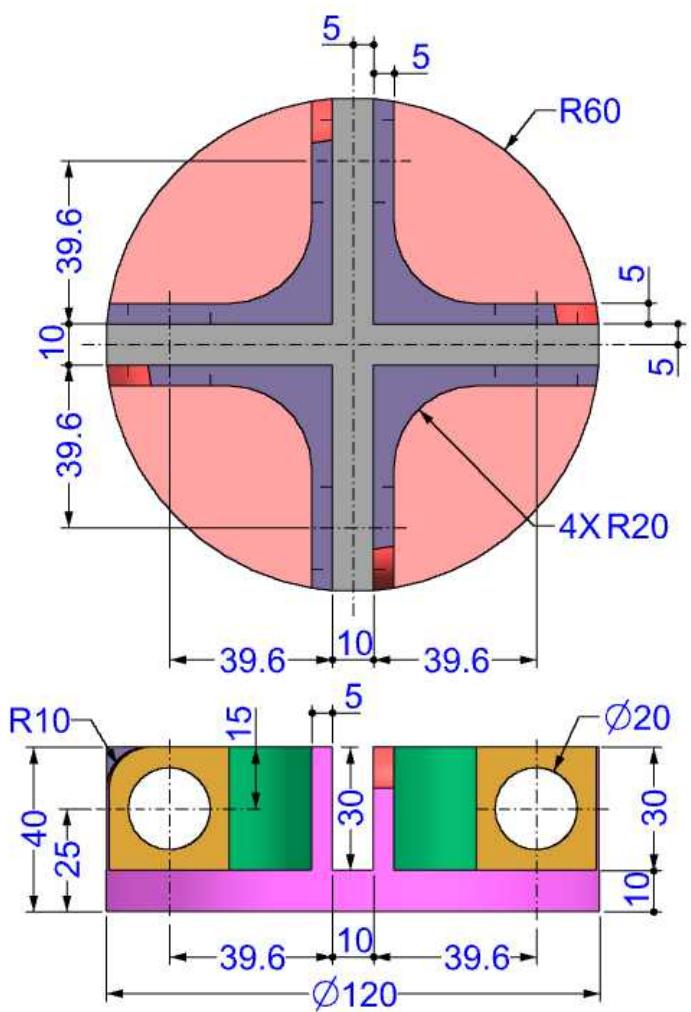
EXERCISE-132



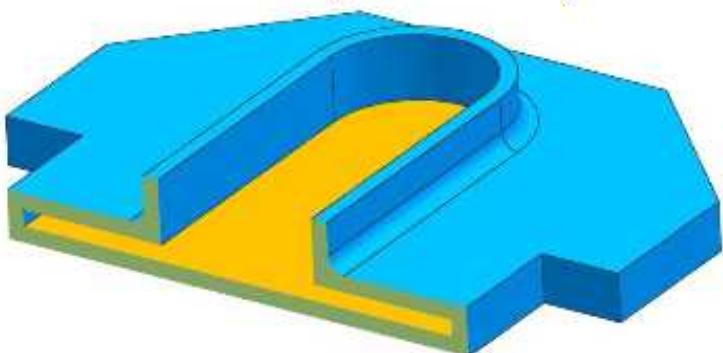
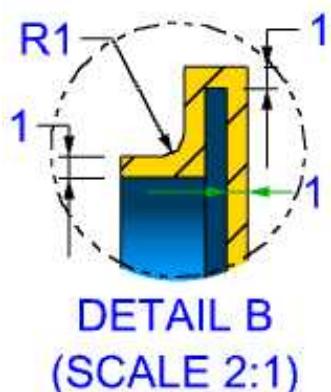
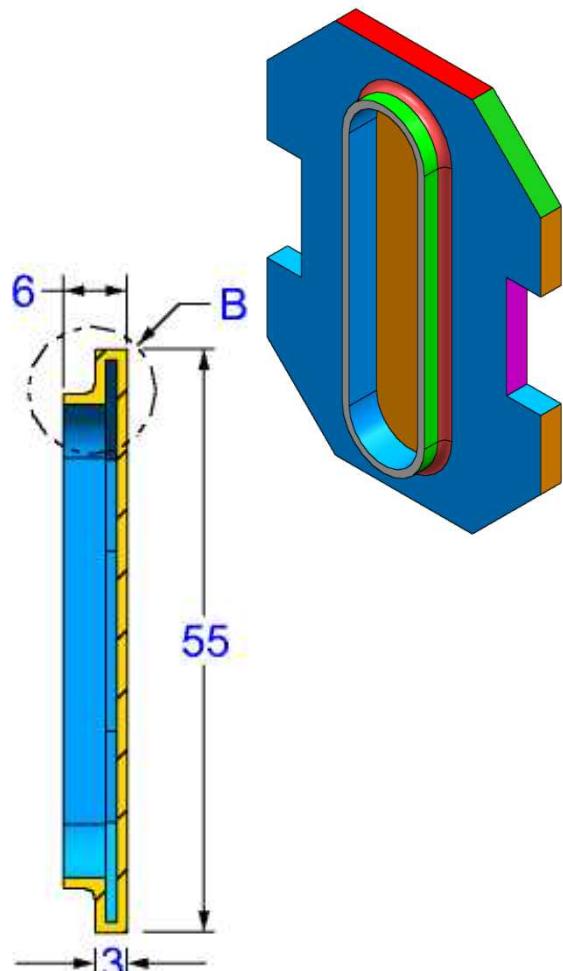
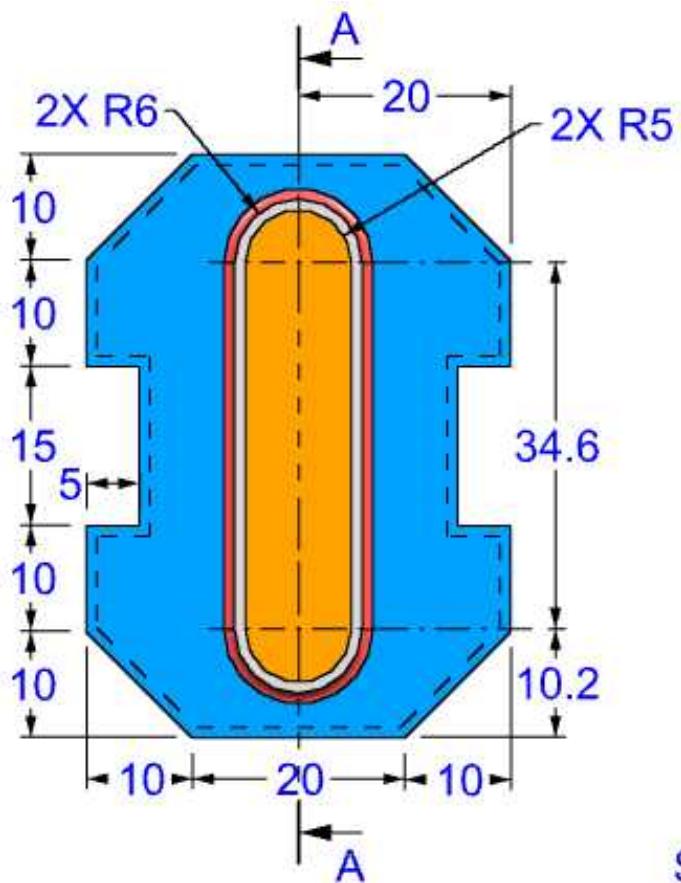
EXERCISE-133



EXERCISE-134

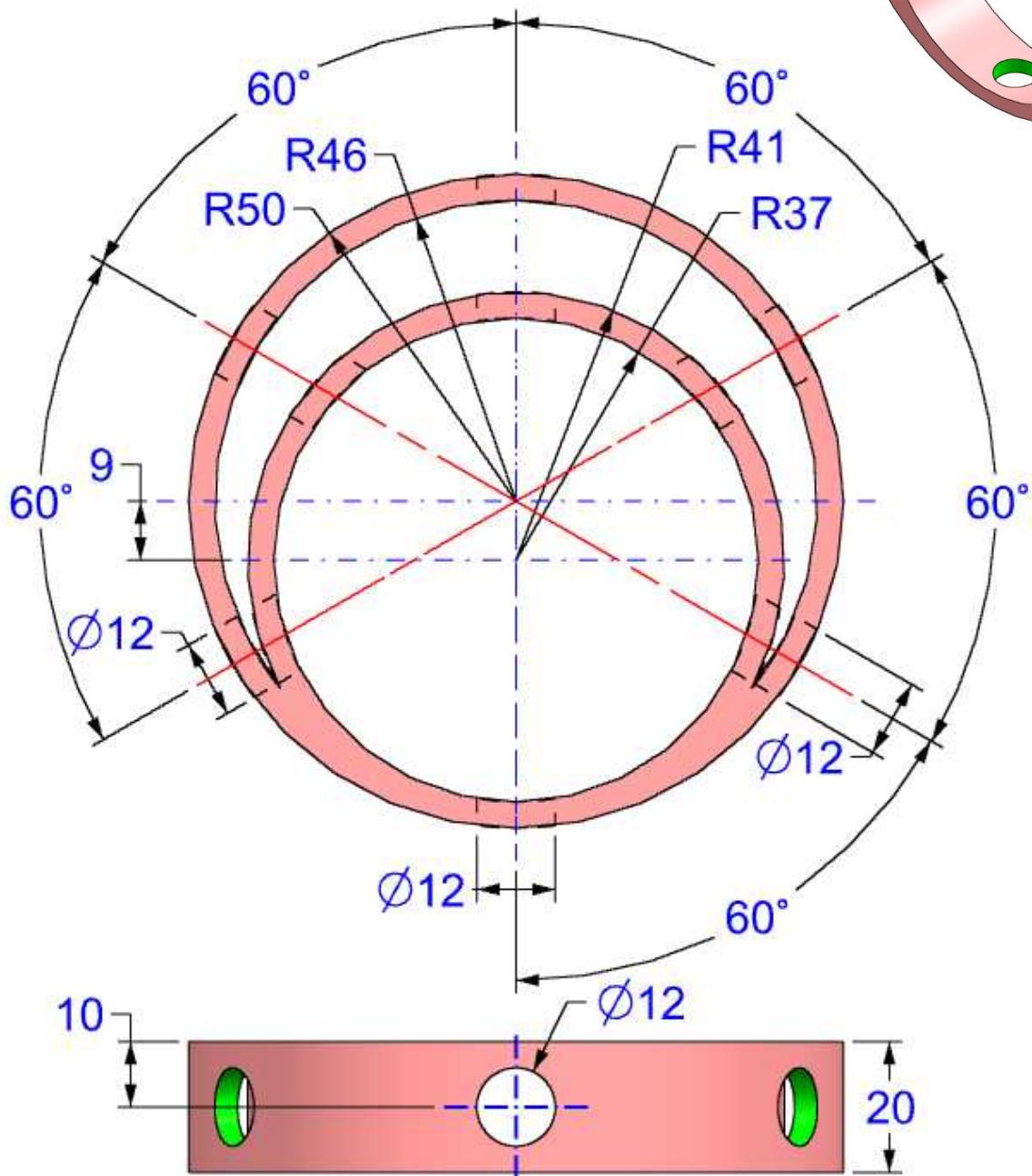
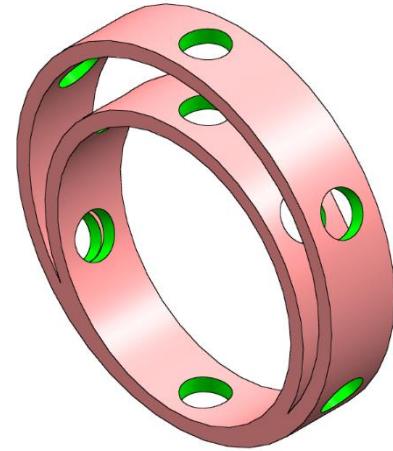


EXERCISE-135

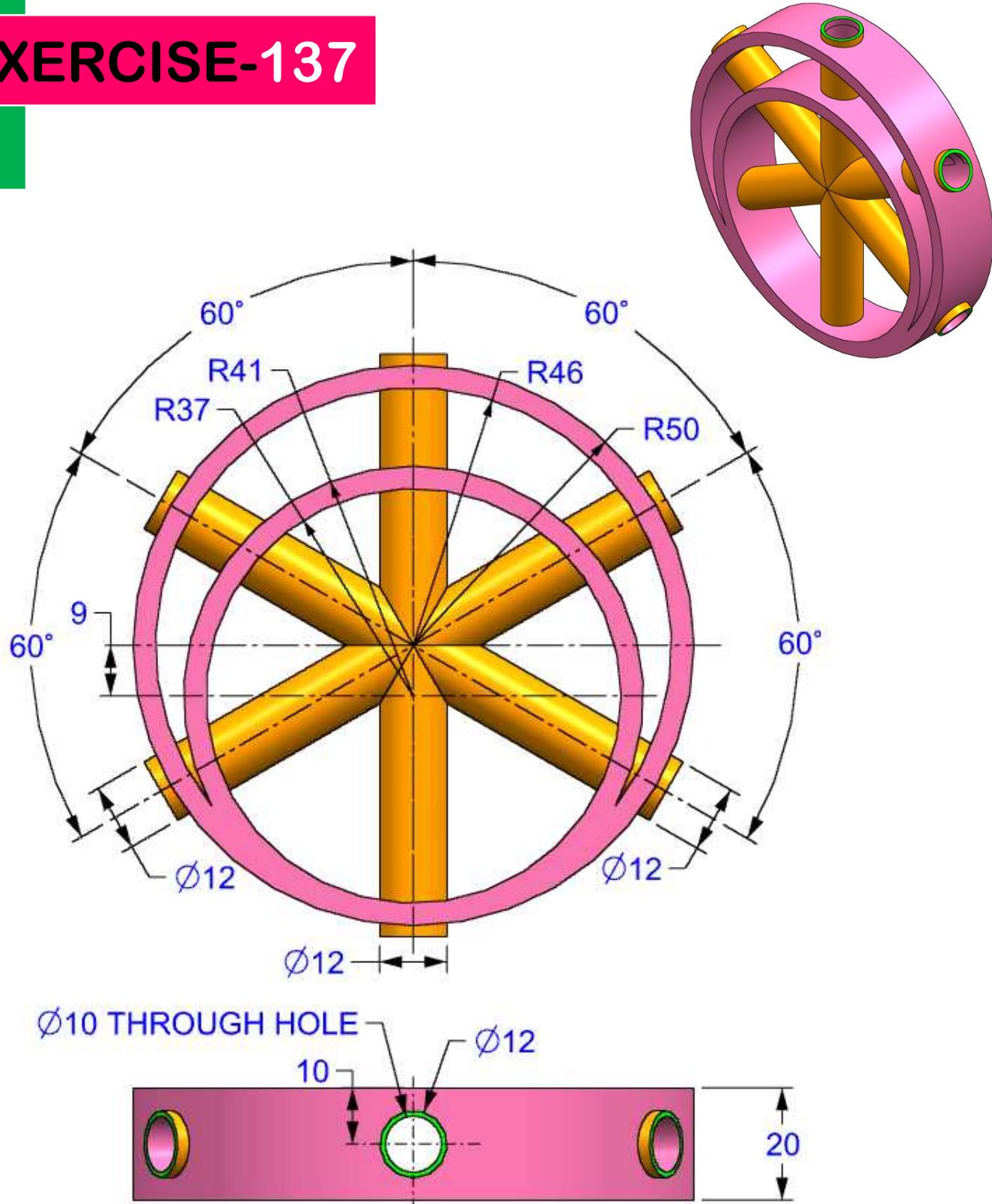


SHELL THICKNESS = 1MM
ALL INSIDE WALL THICKNESS

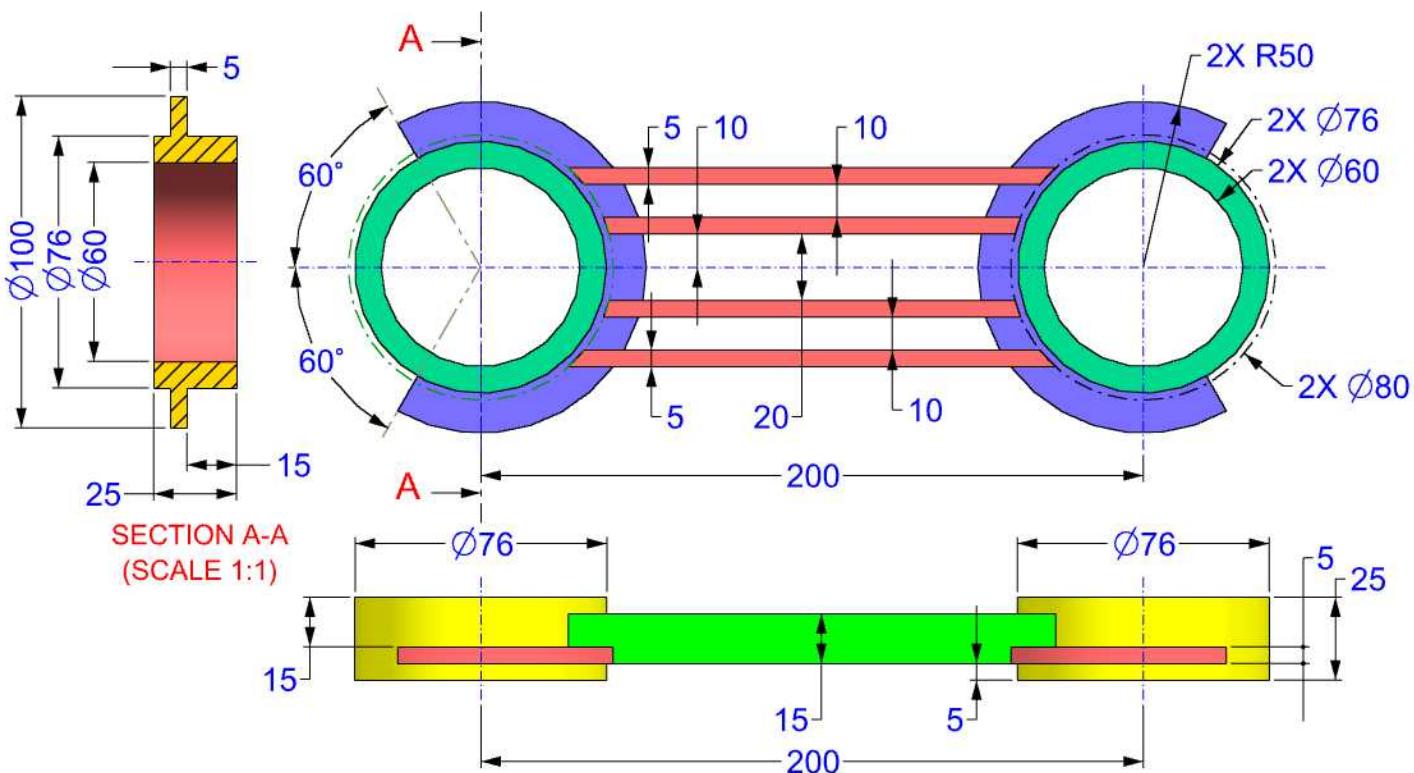
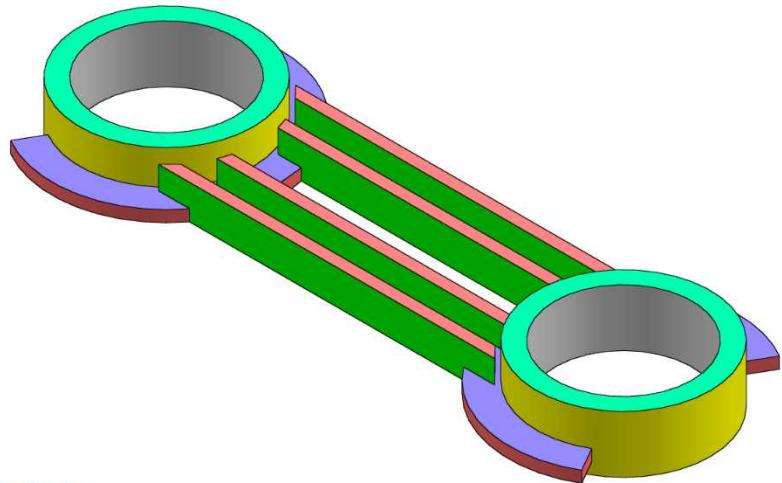
EXERCISE-136



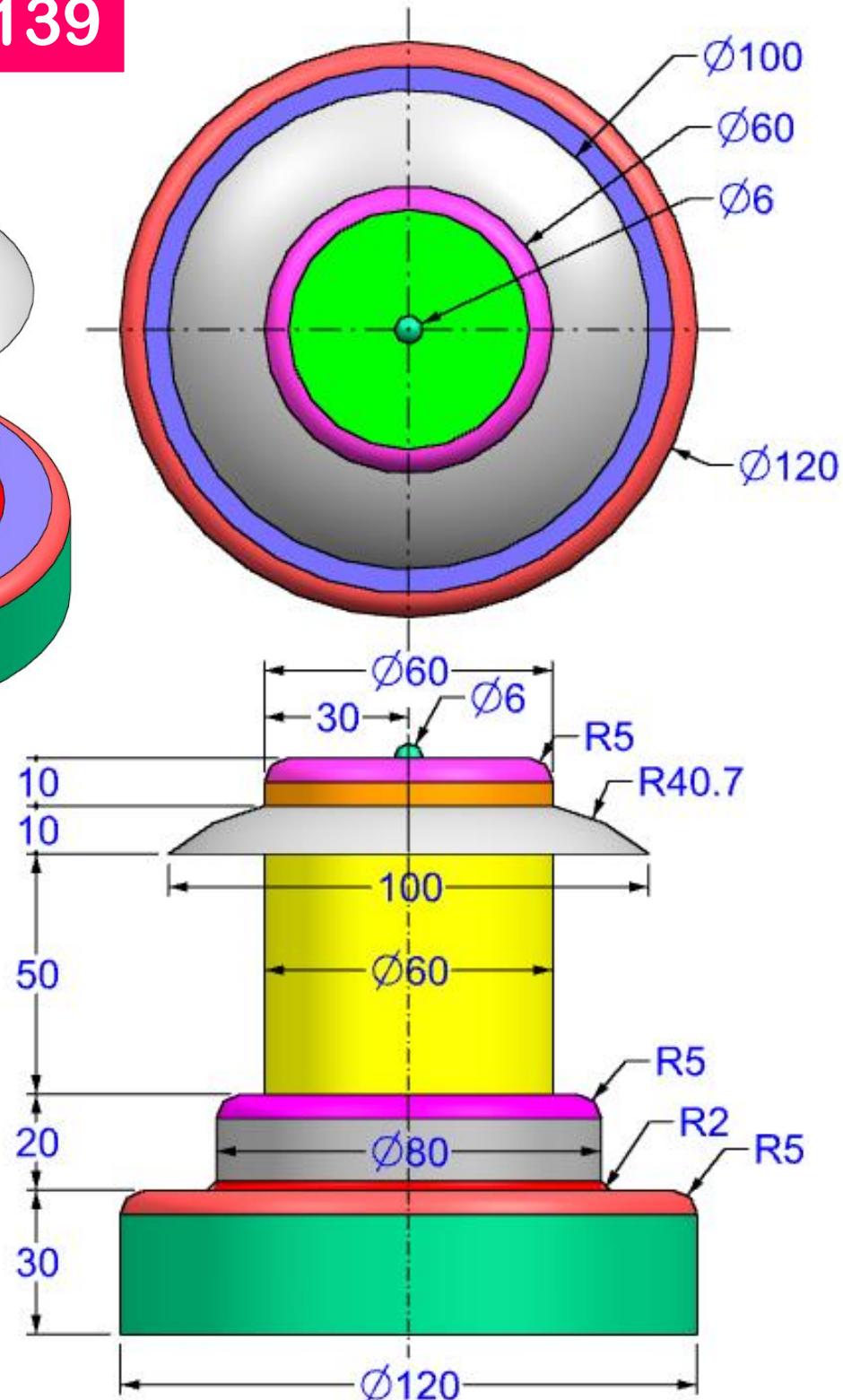
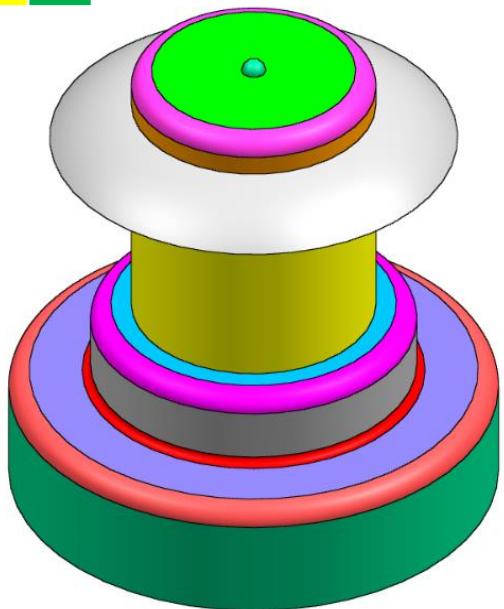
EXERCISE-137



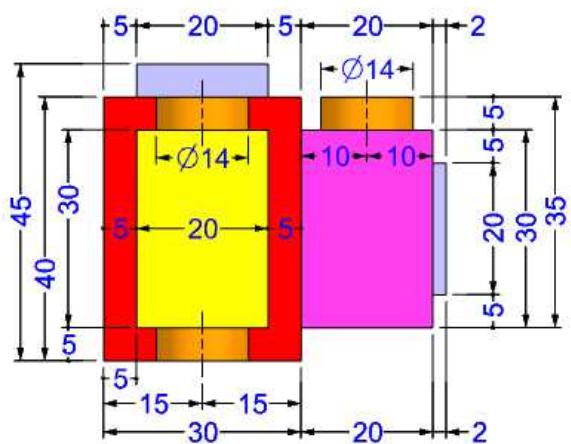
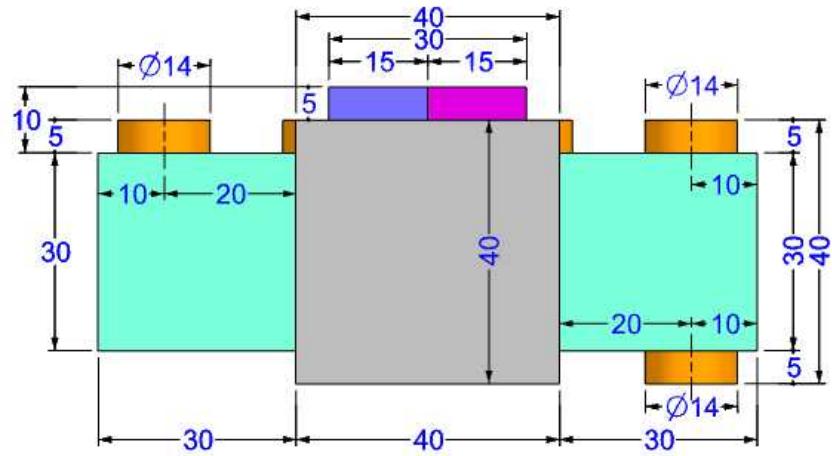
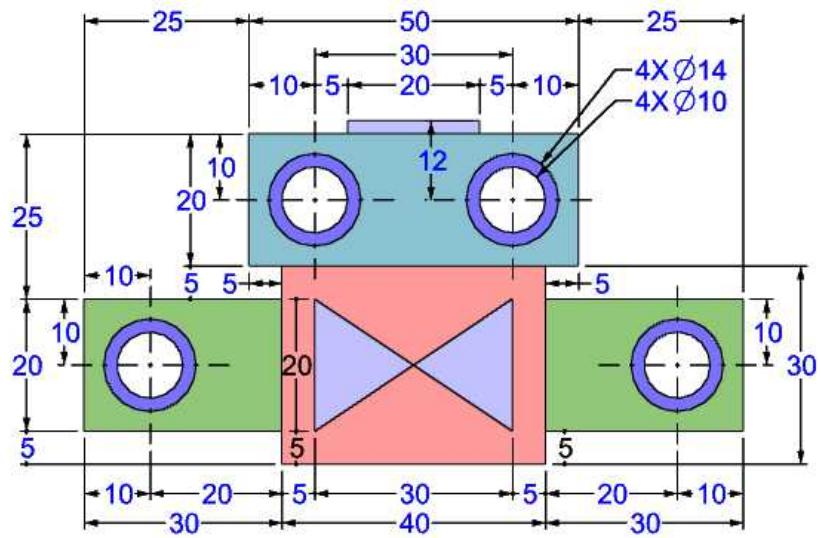
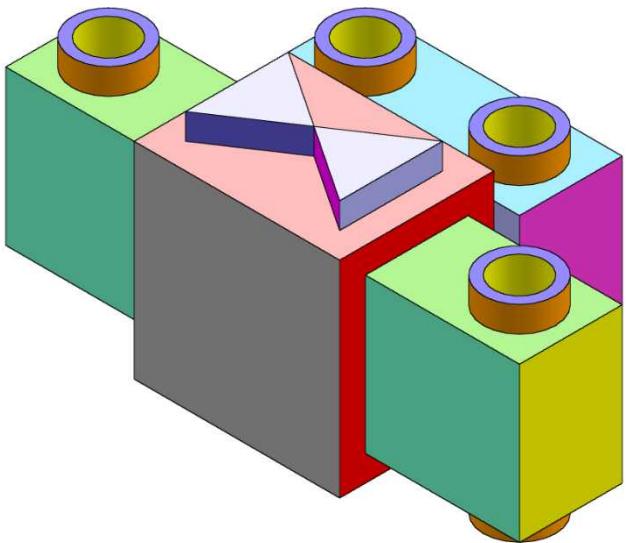
EXERCISE-138



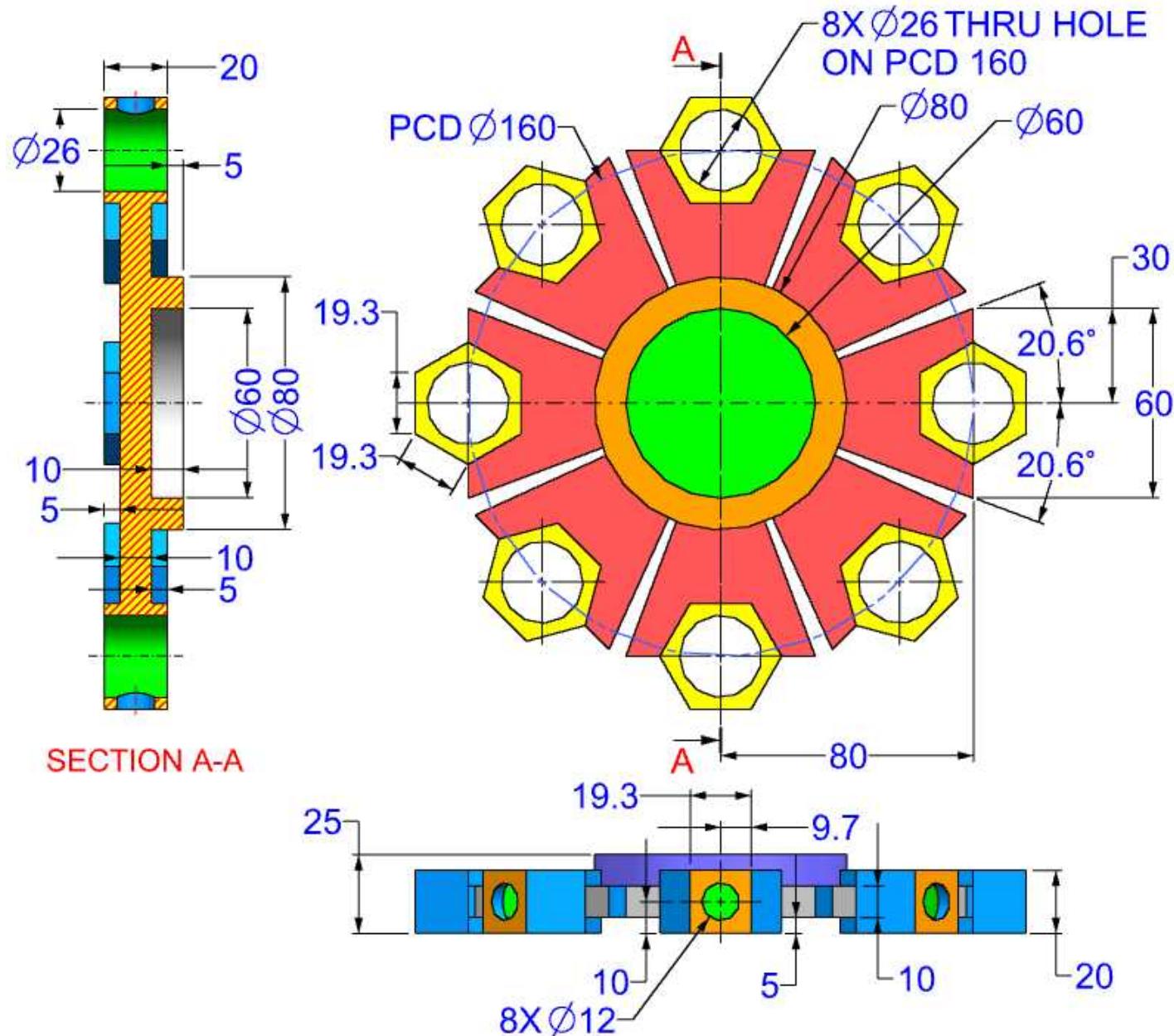
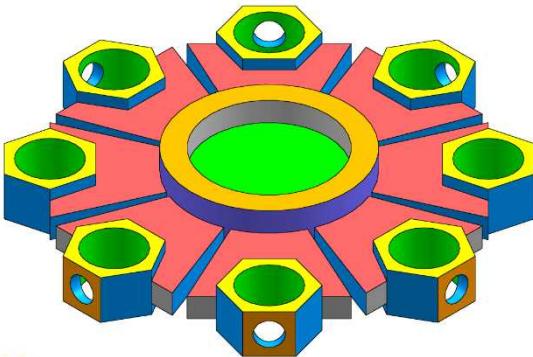
EXERCISE-139



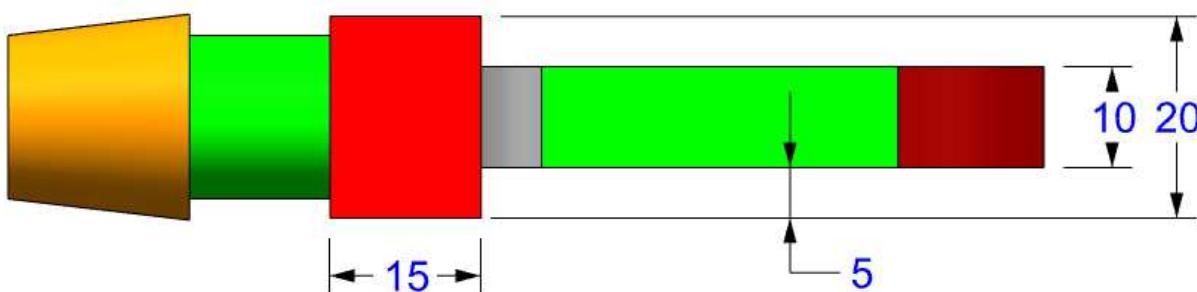
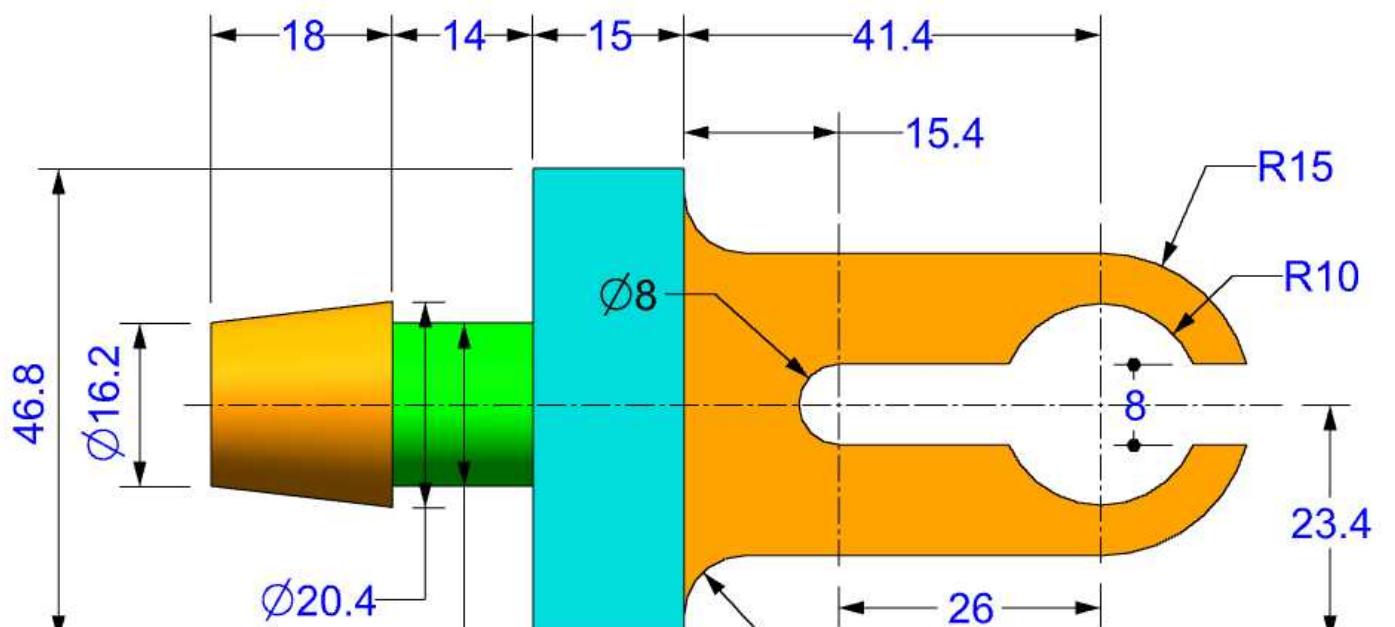
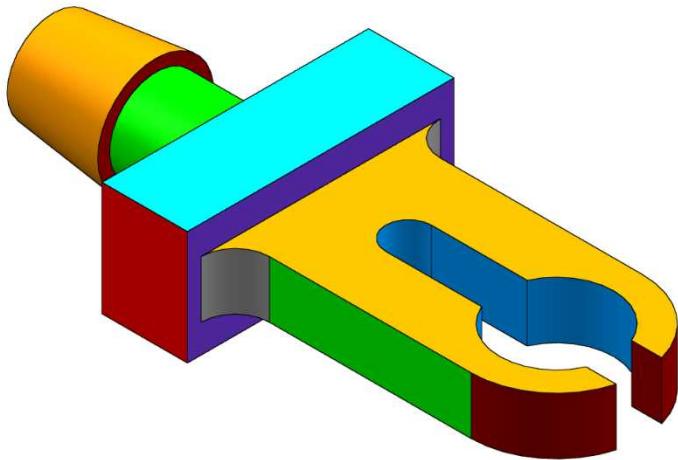
EXERCISE-140



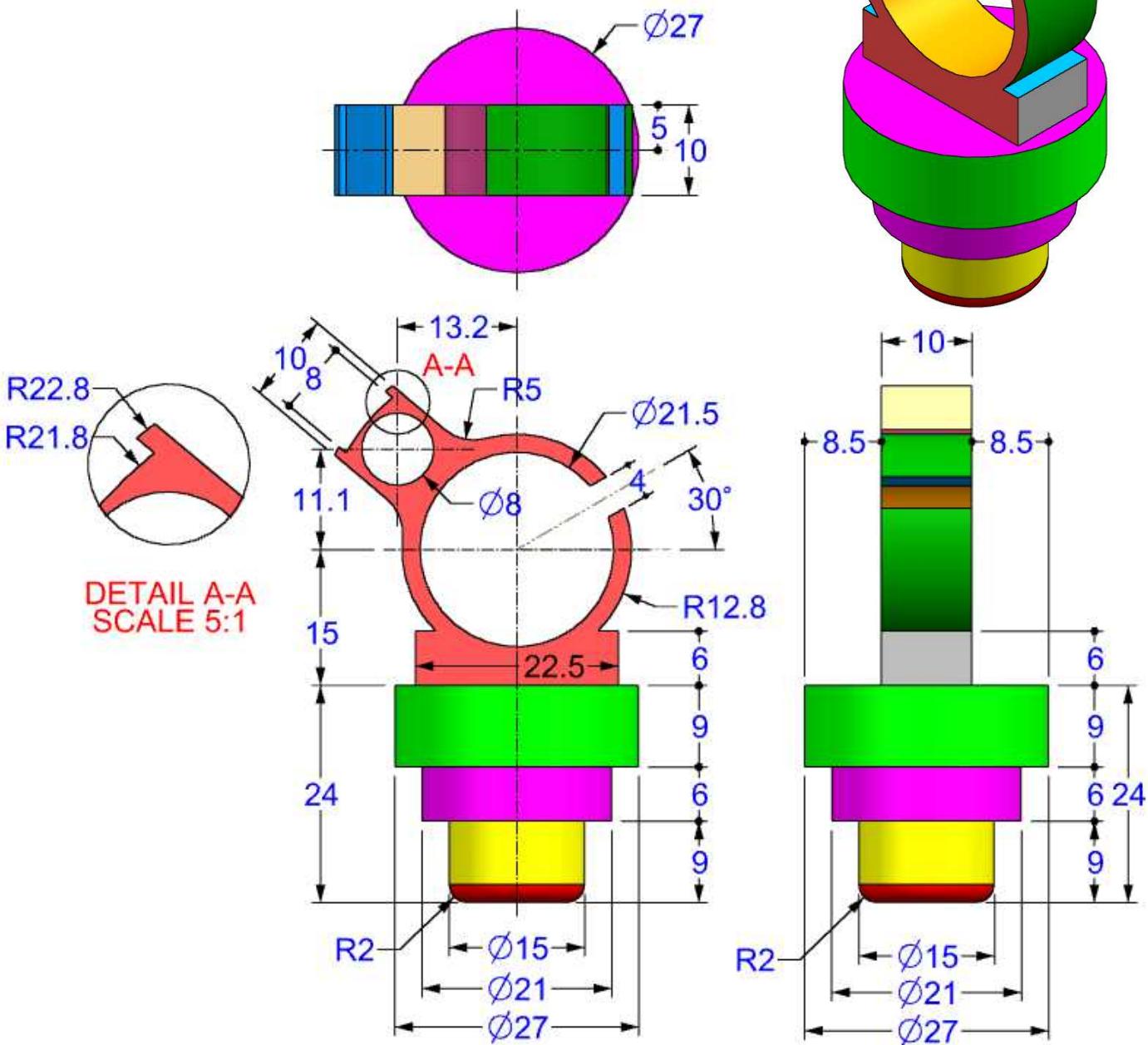
EXERCISE-141



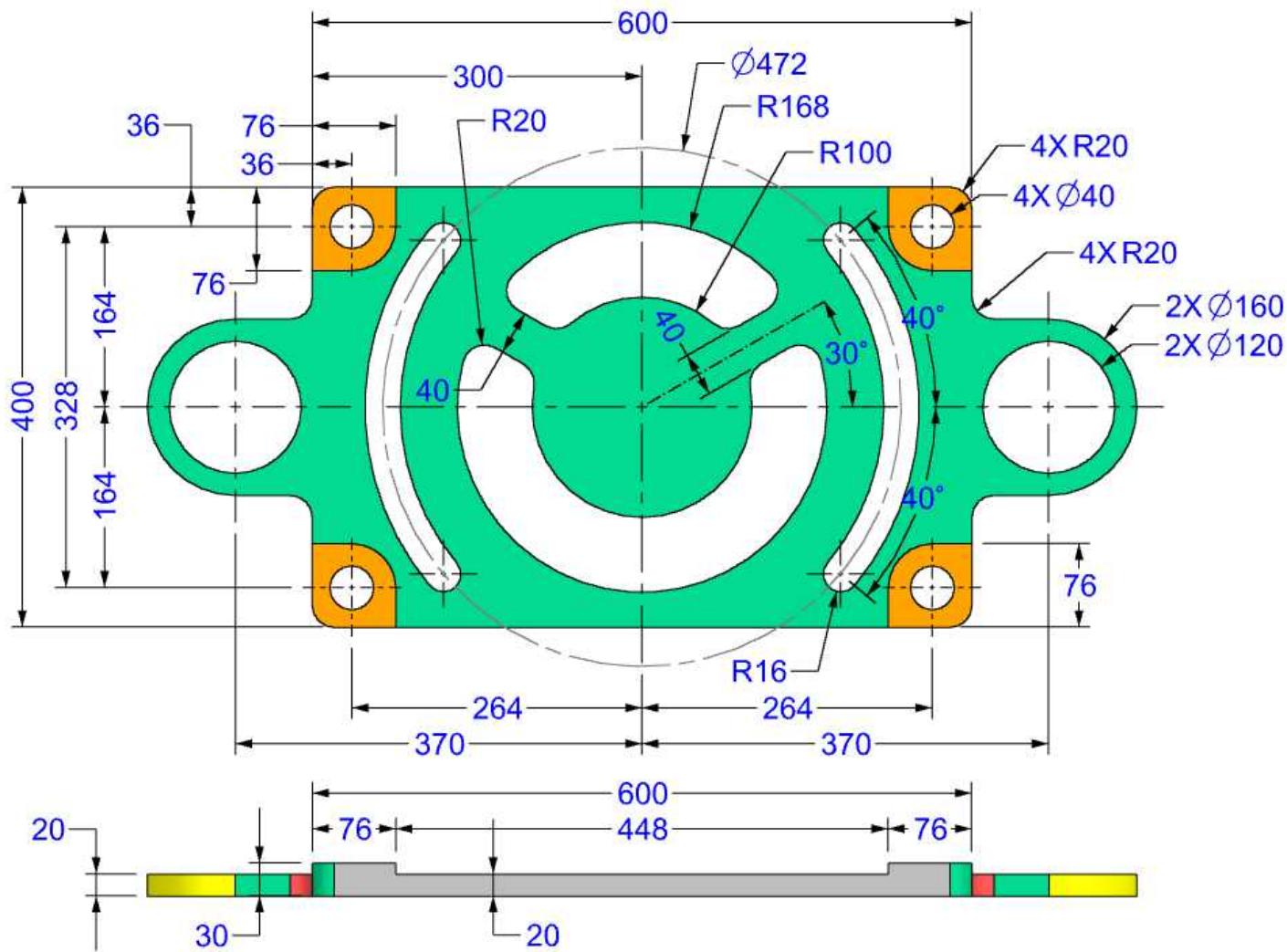
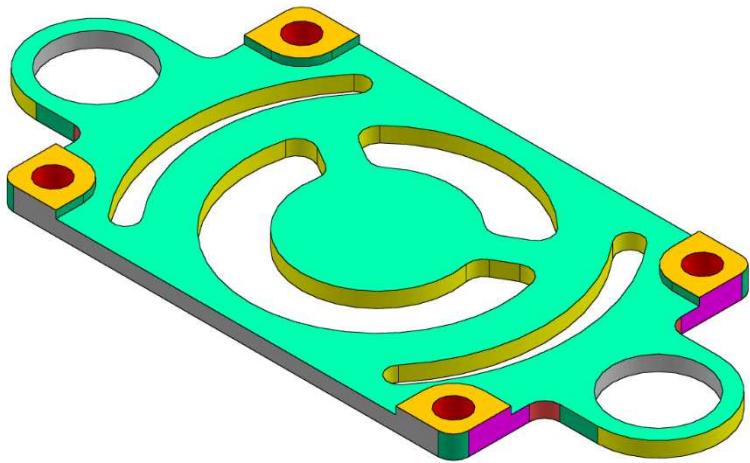
EXERCISE-142



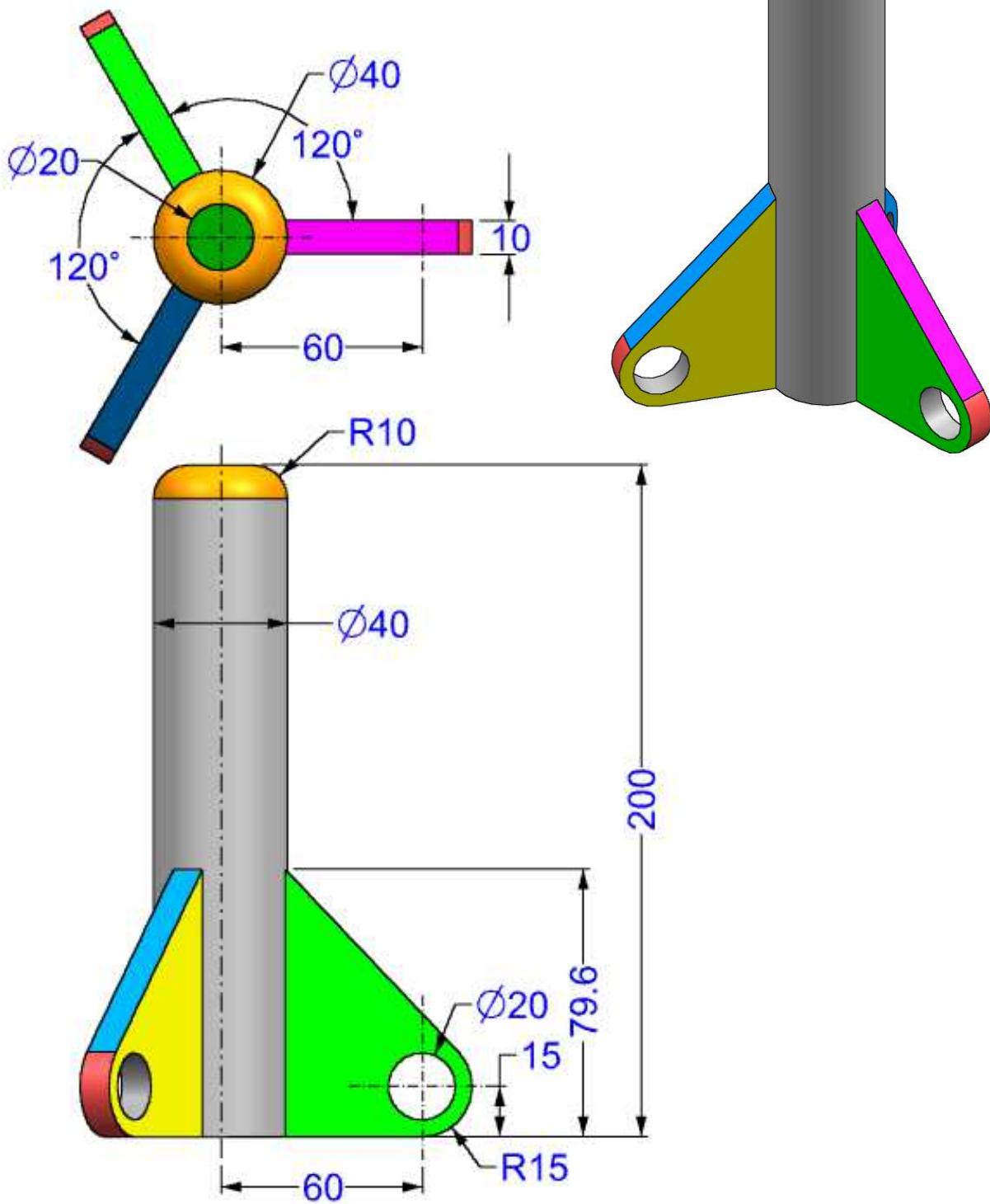
EXERCISE-143



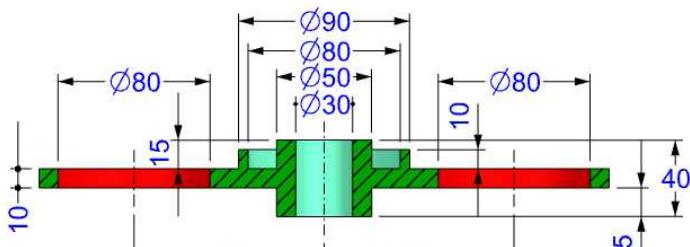
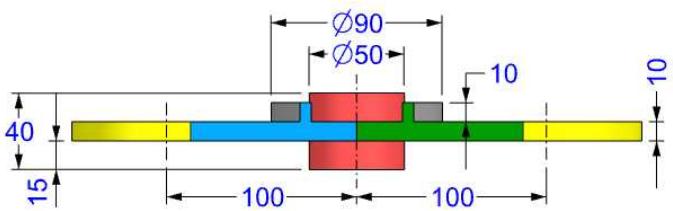
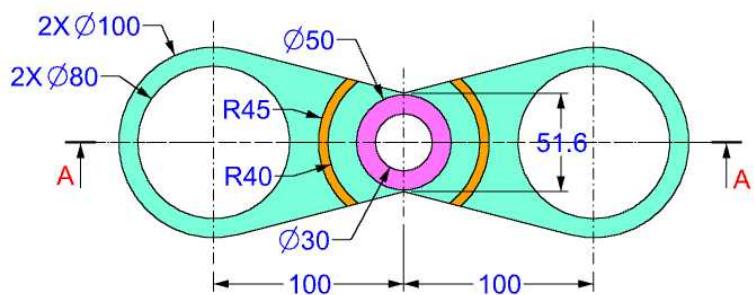
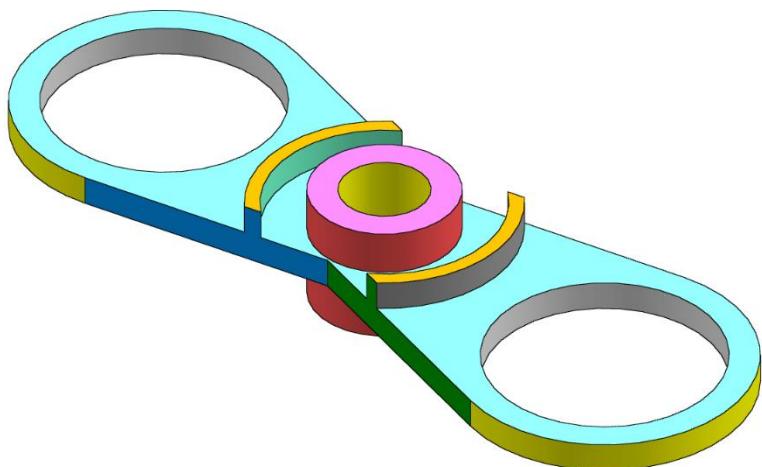
EXERCISE-144



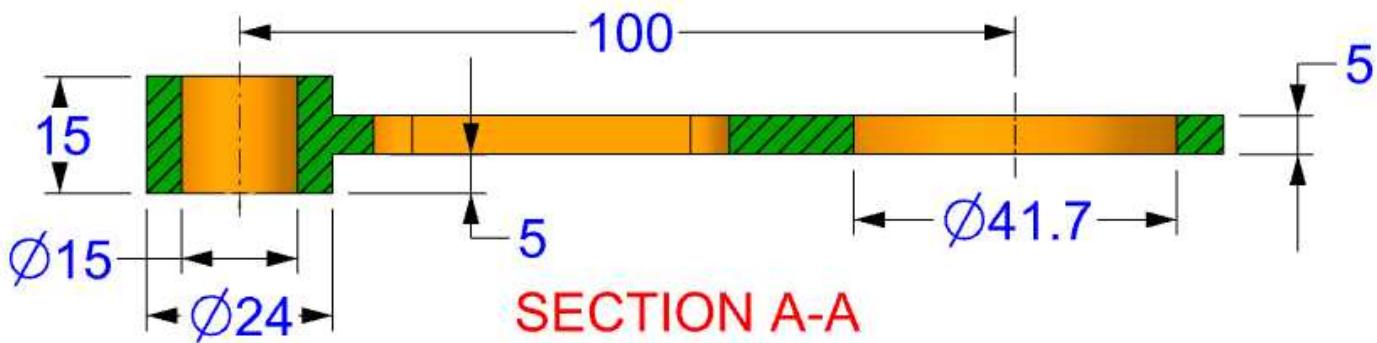
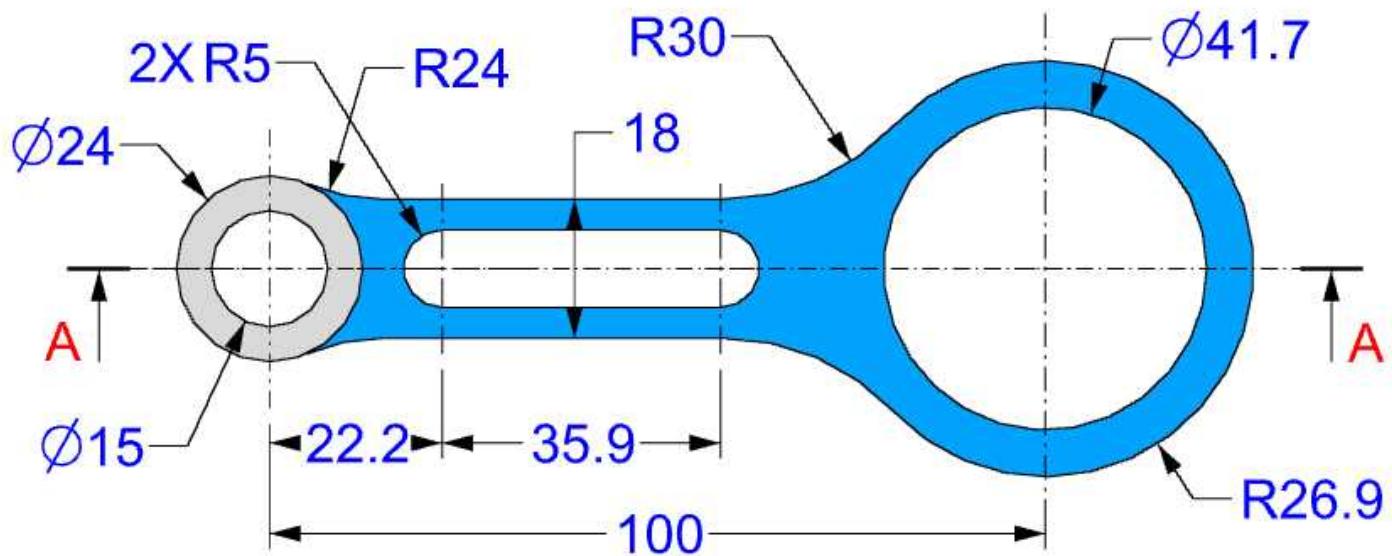
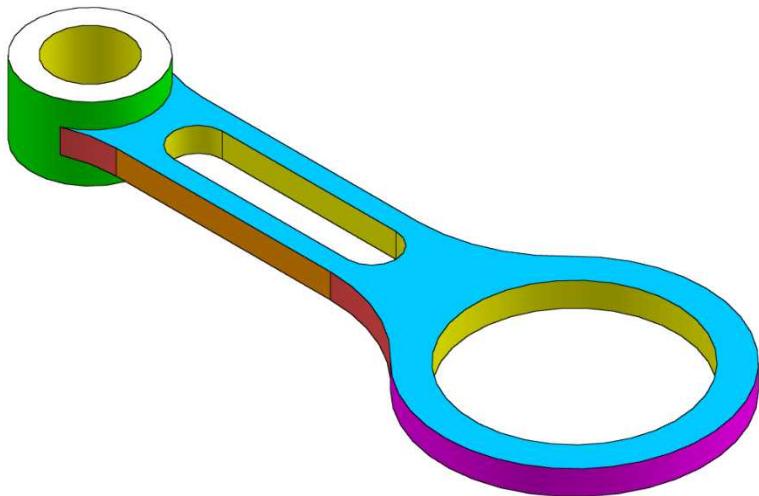
EXERCISE-145



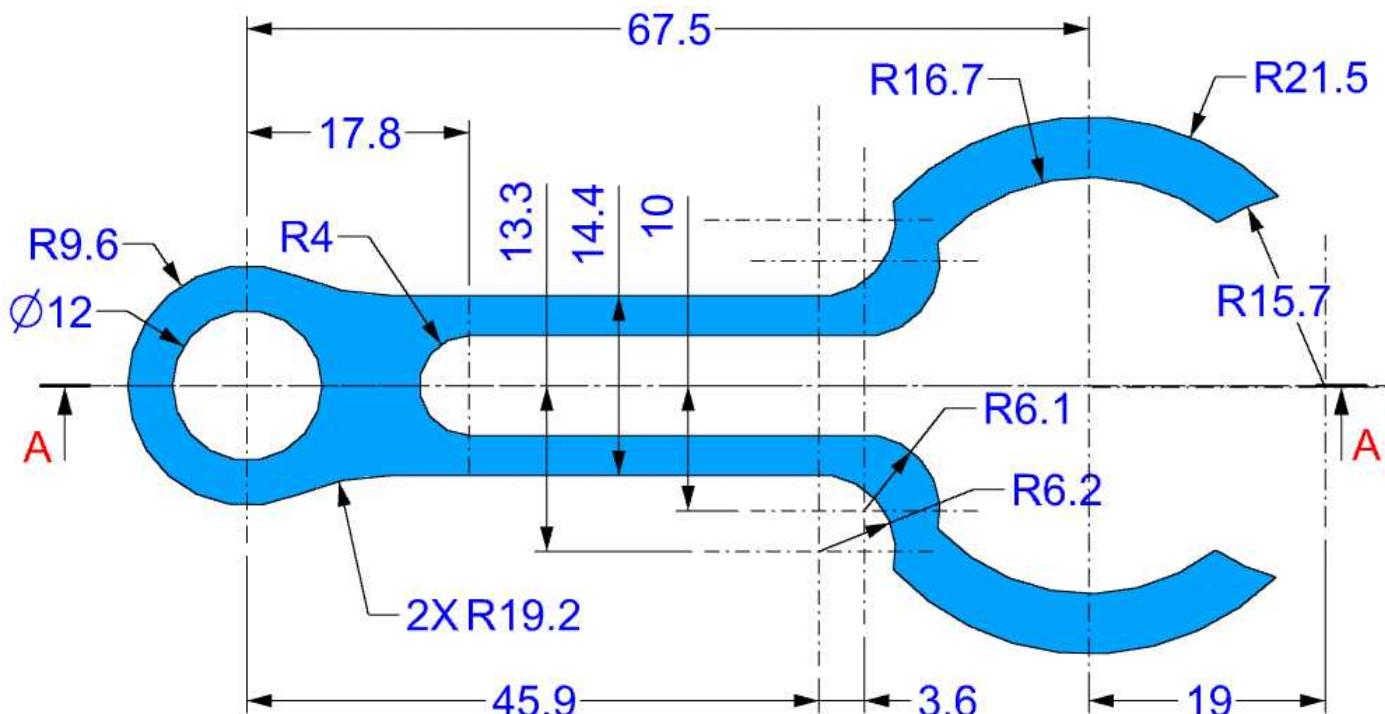
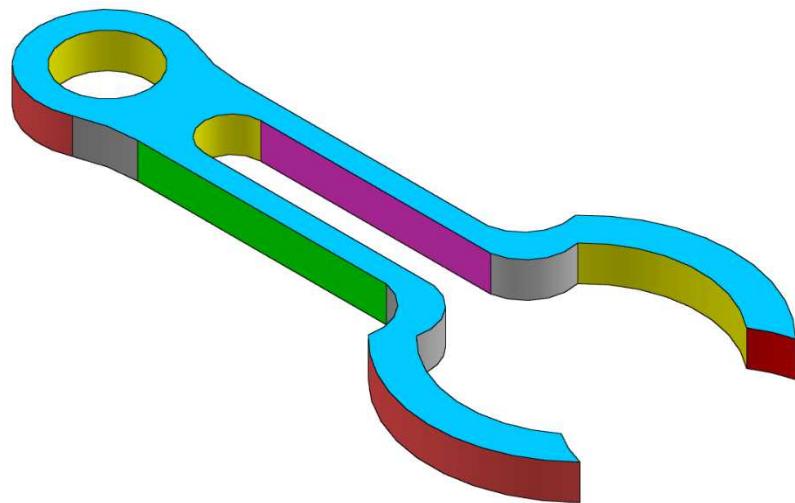
EXERCISE-146



SECTION A-A

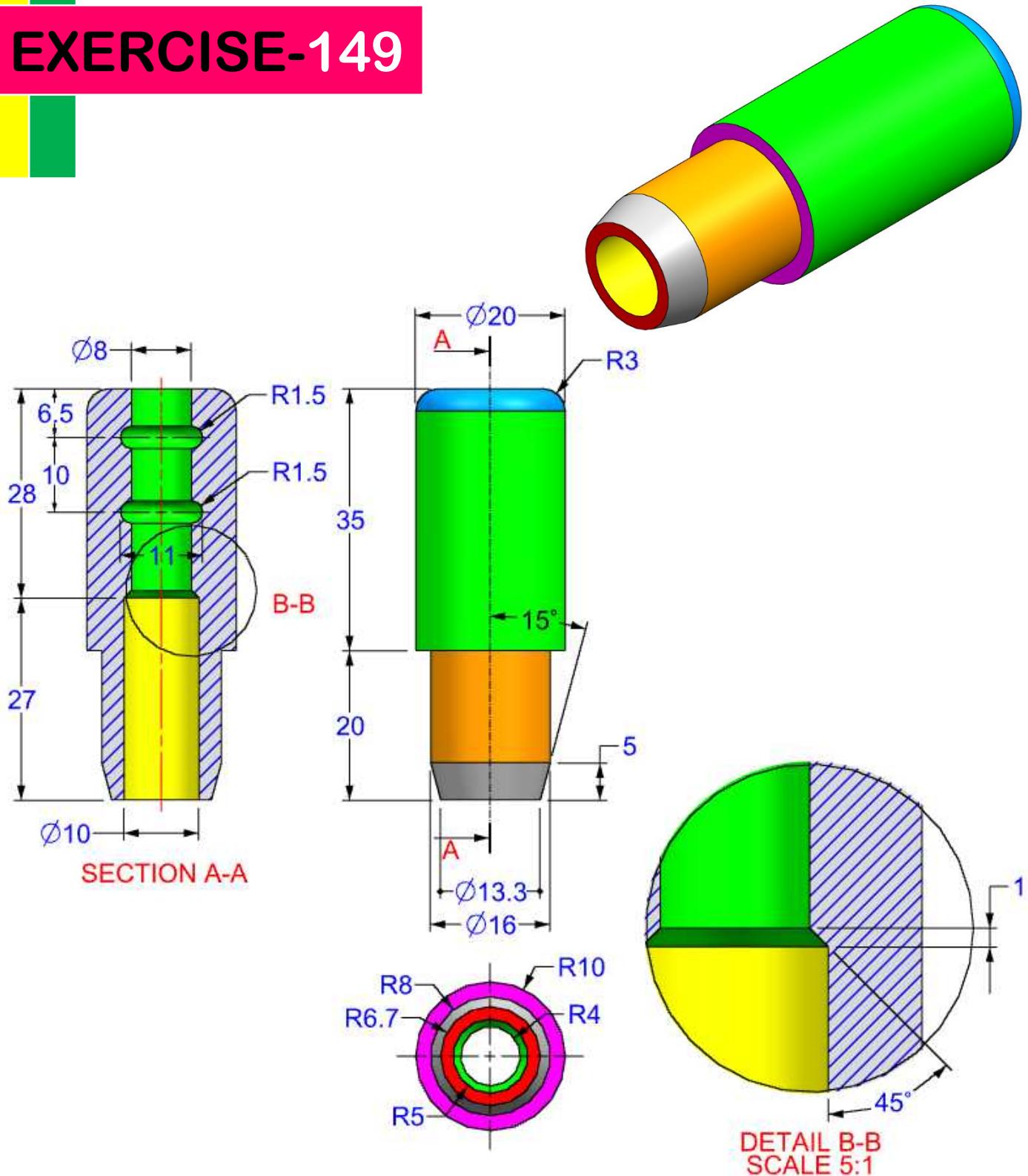
EXERCISE-147

EXERCISE-148

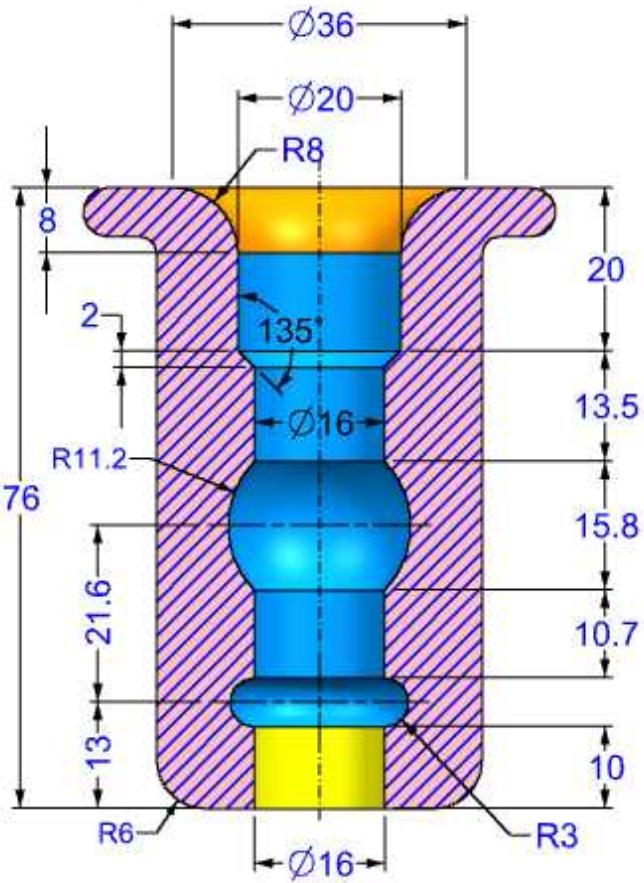
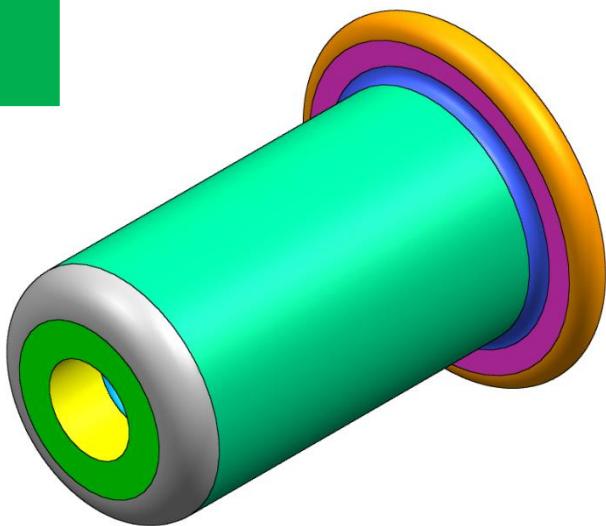


SECTION A-A

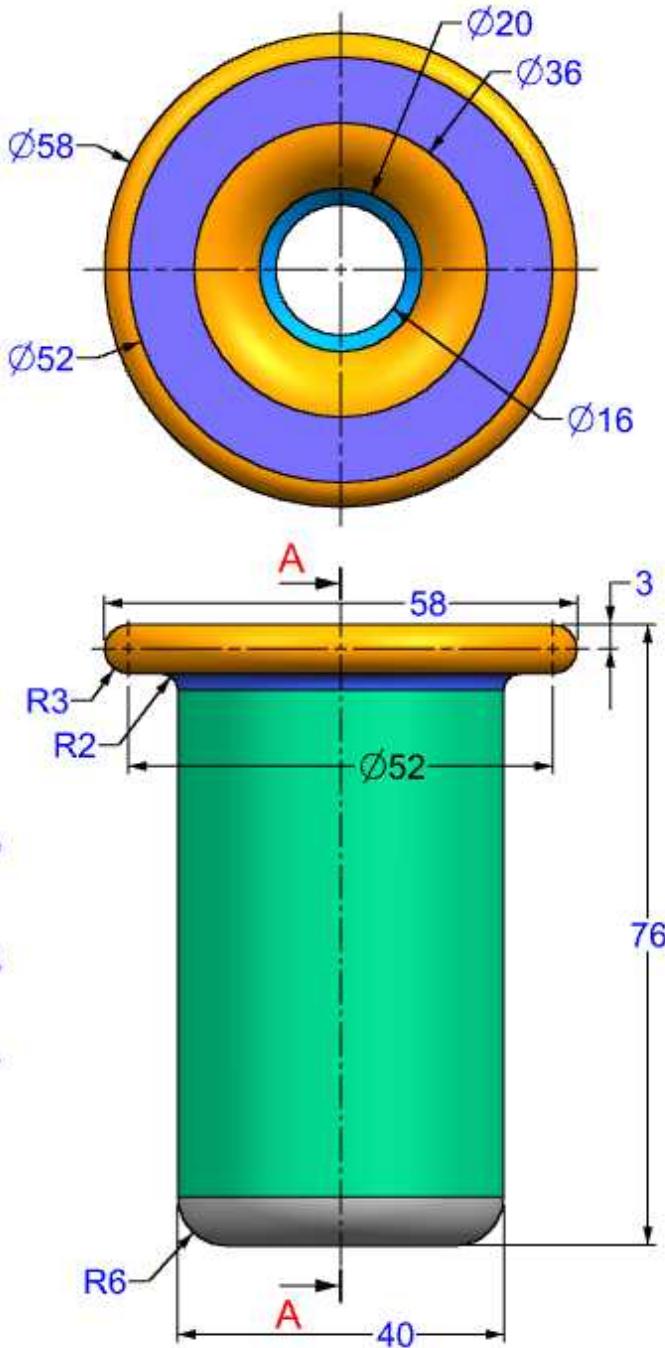
EXERCISE-149



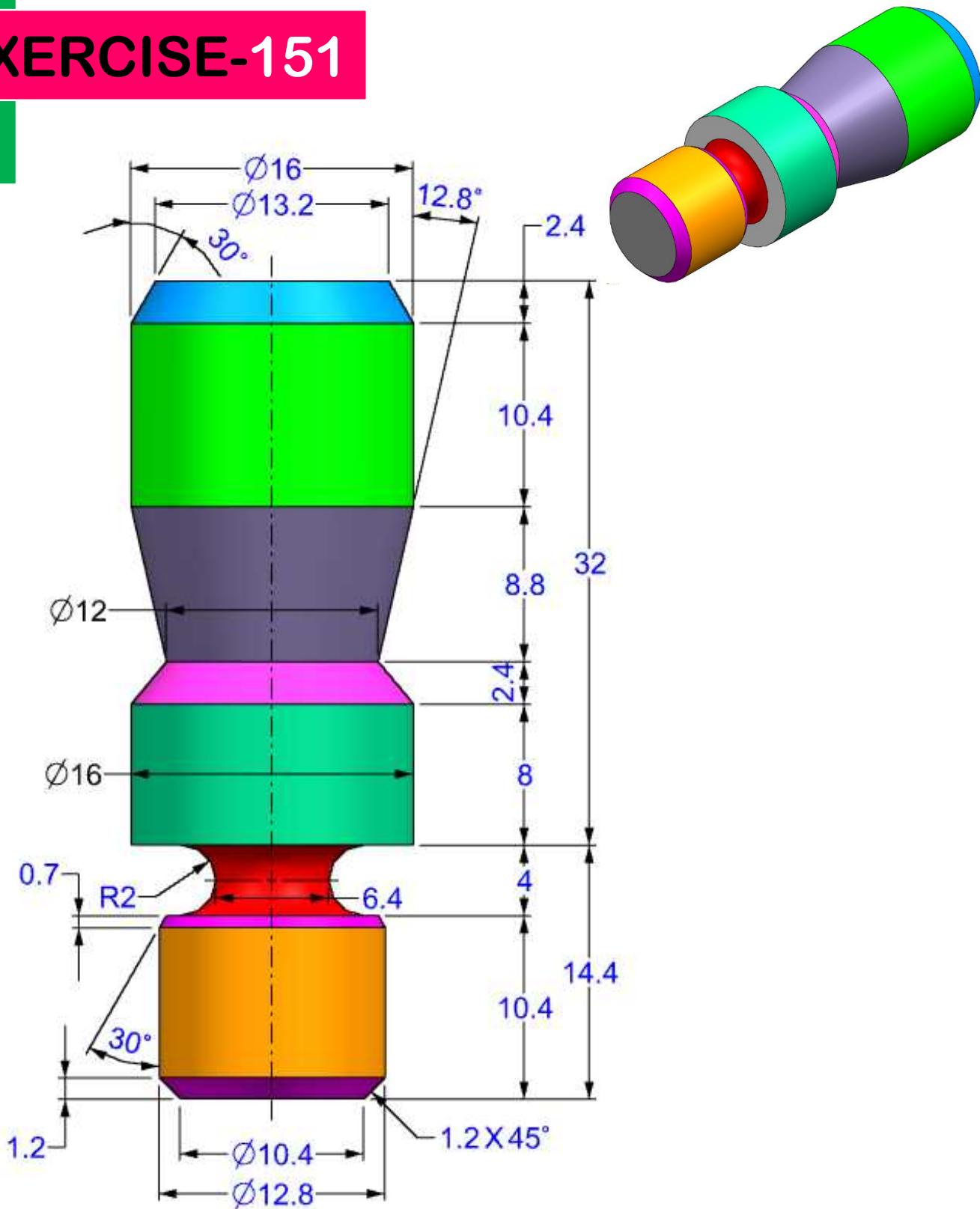
EXERCISE-150



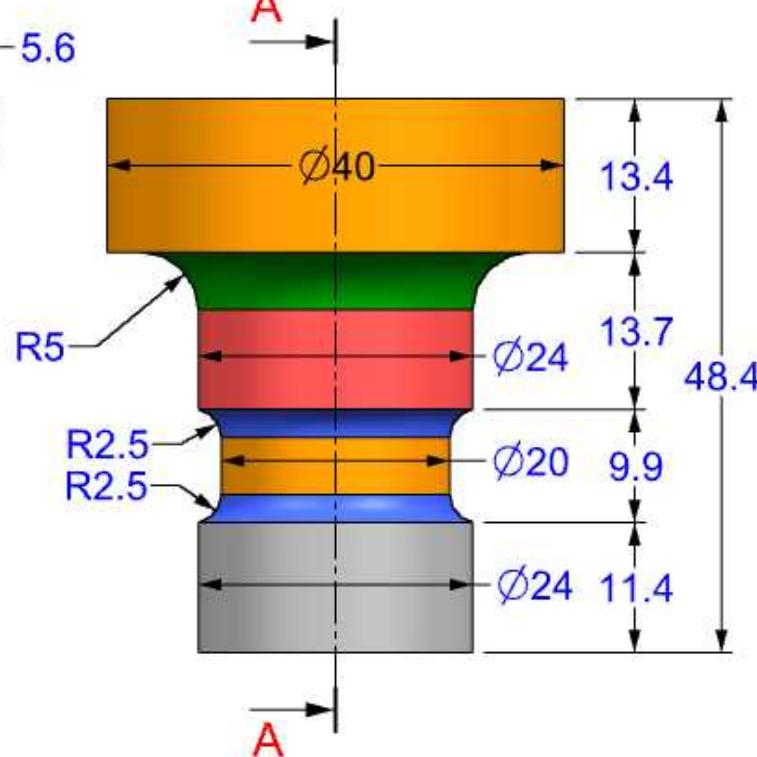
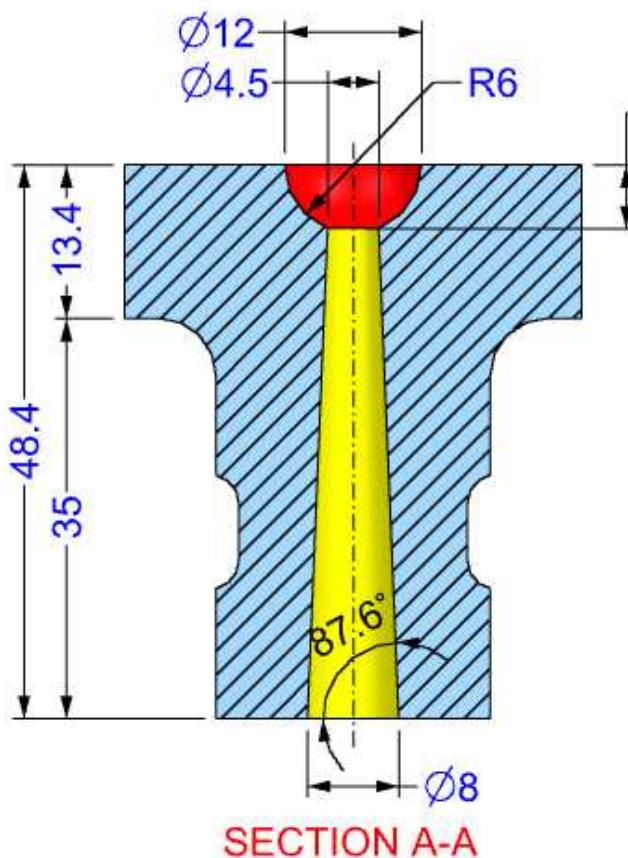
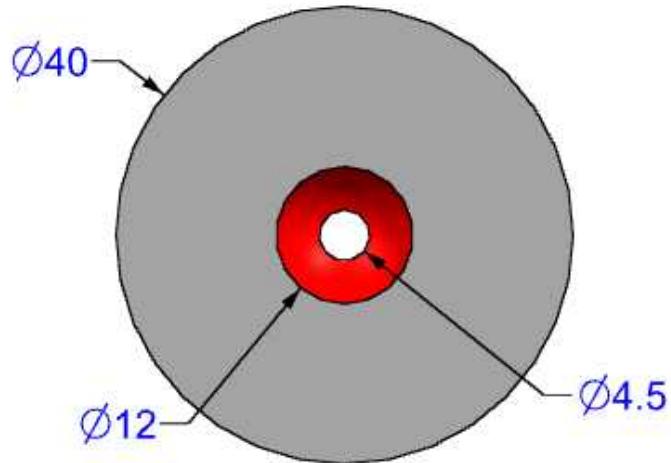
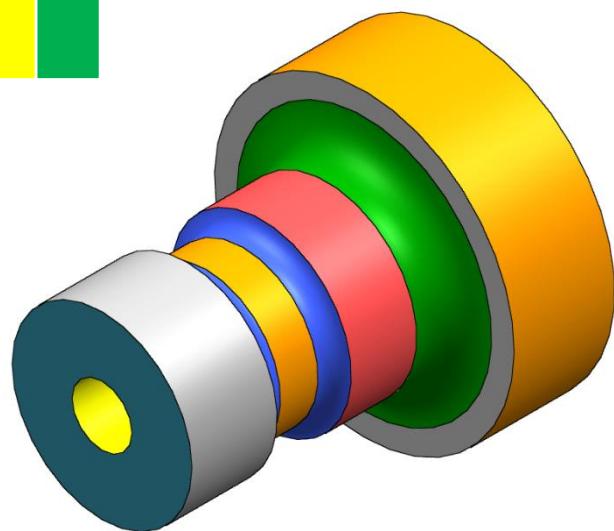
SECTION A-A



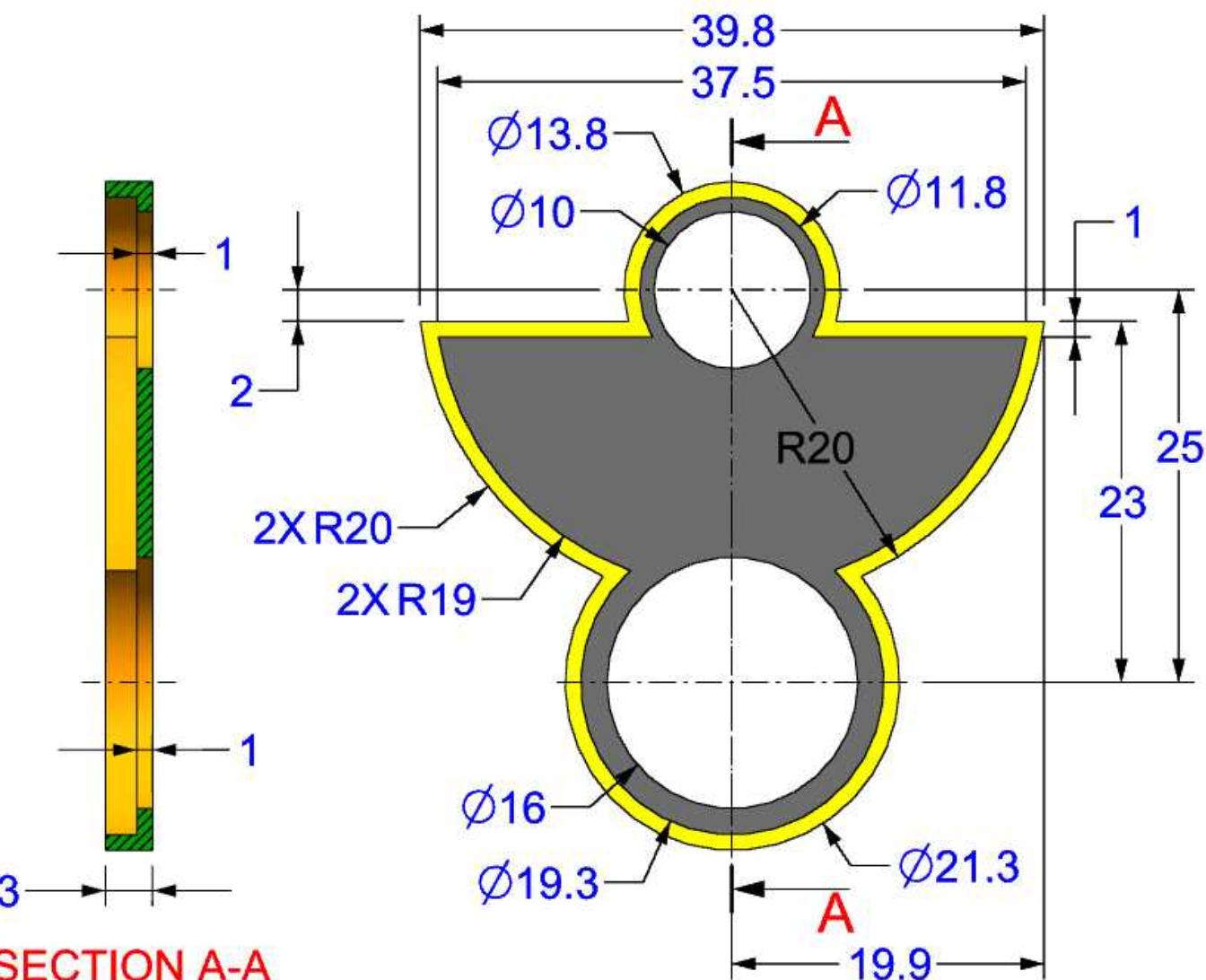
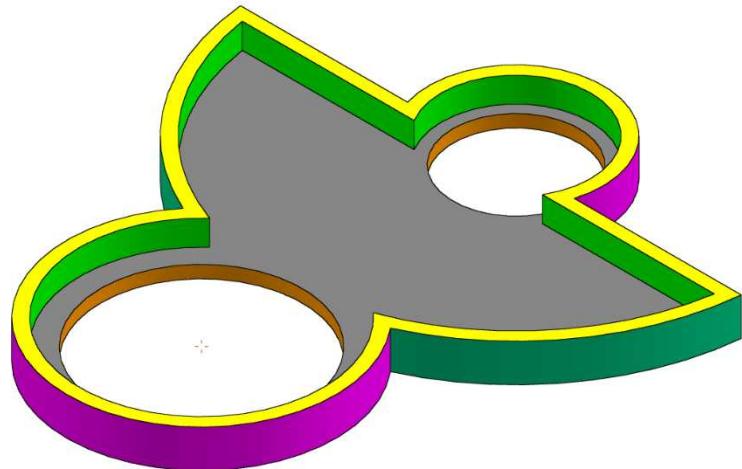
EXERCISE-151



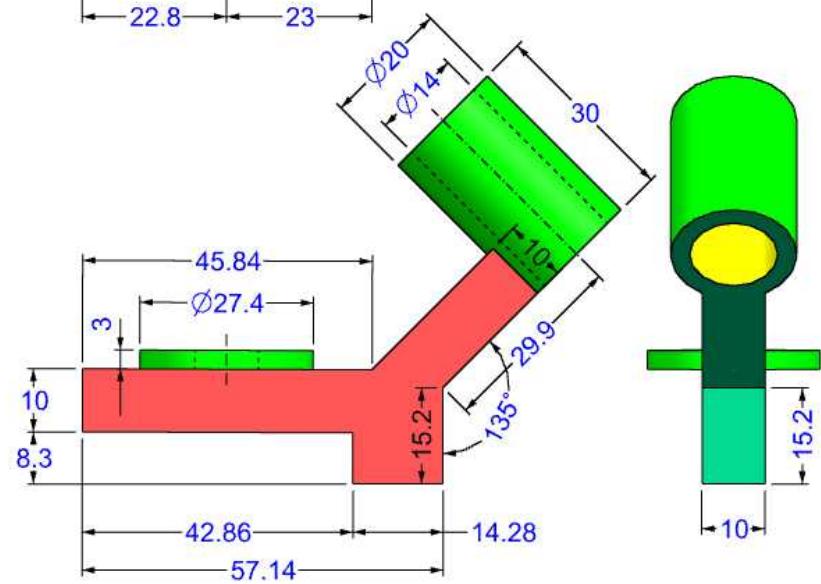
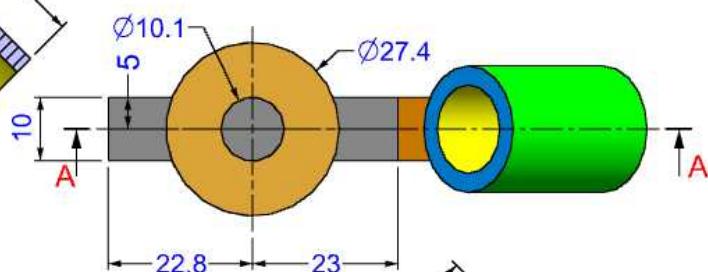
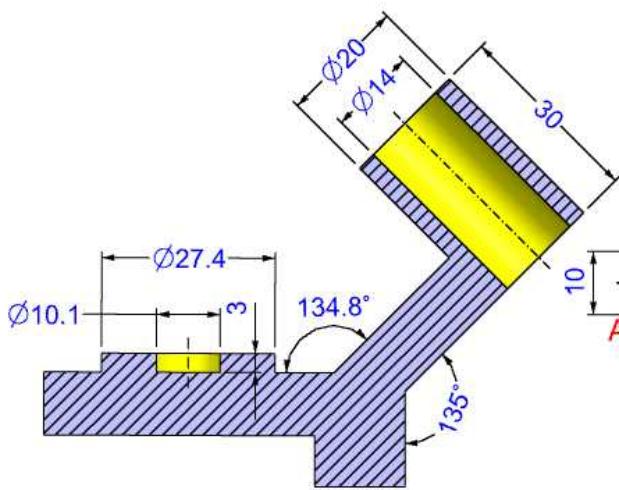
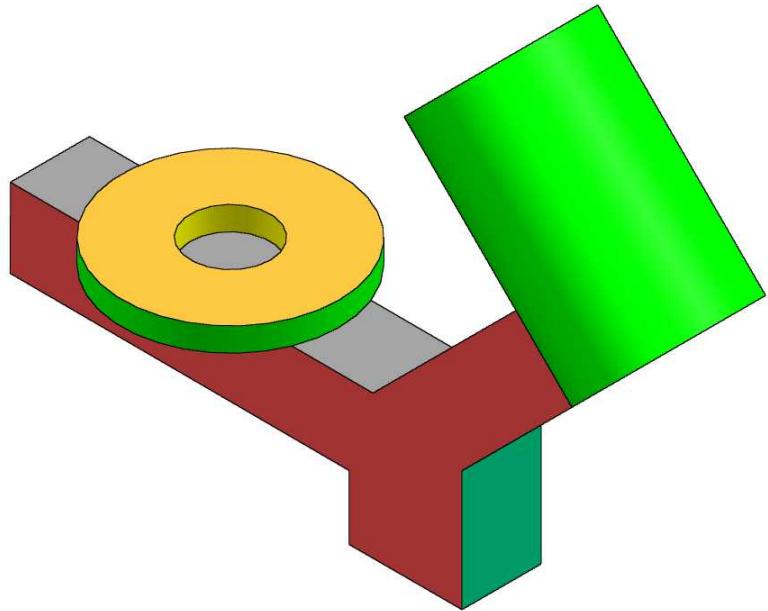
EXERCISE-152



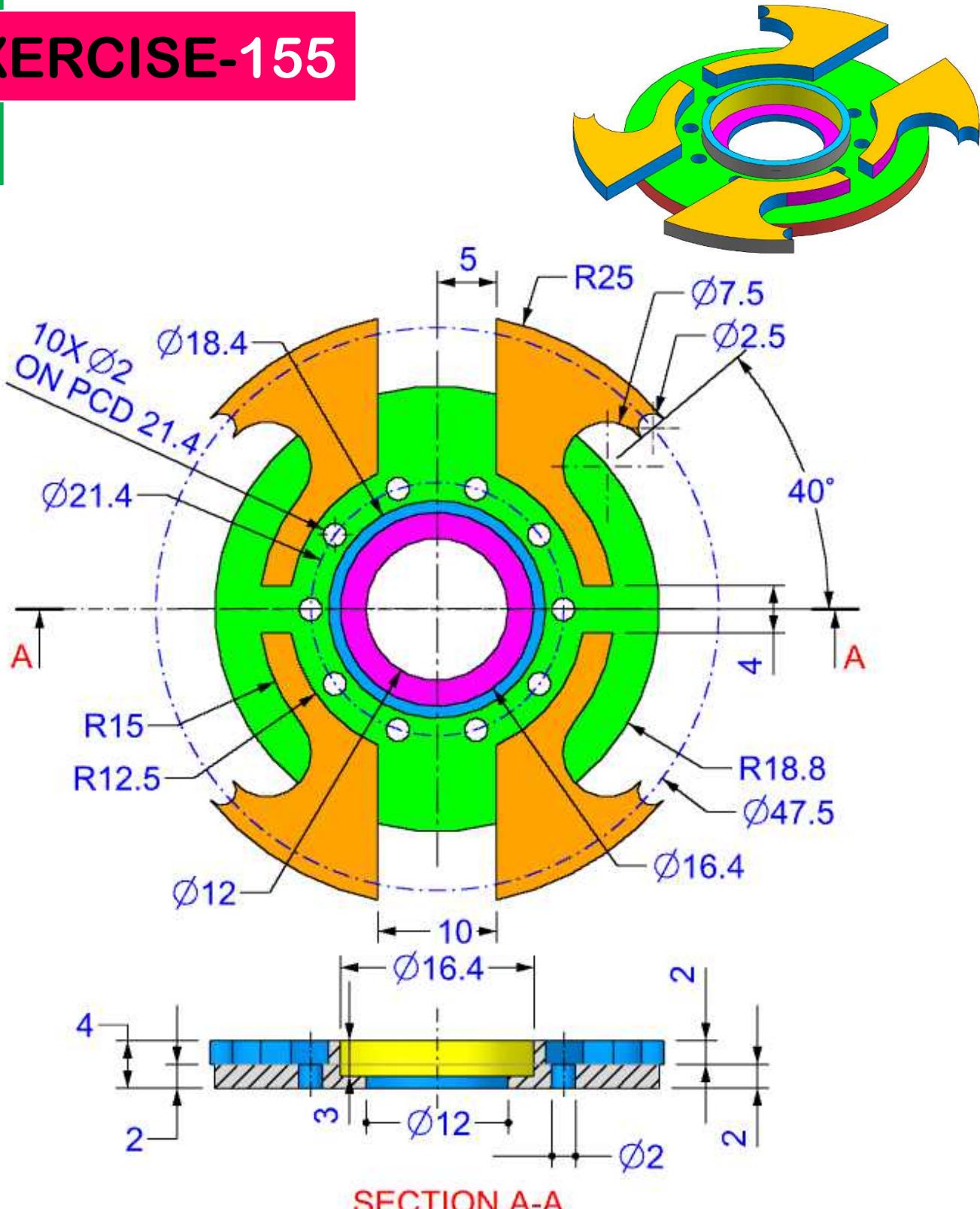
EXERCISE-153



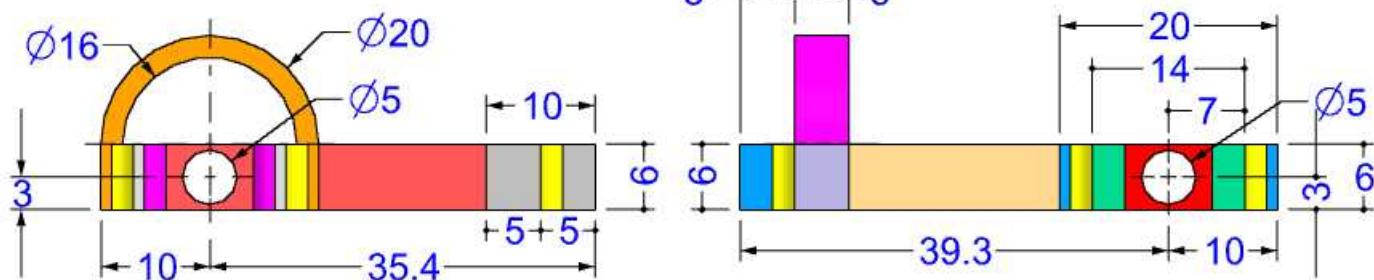
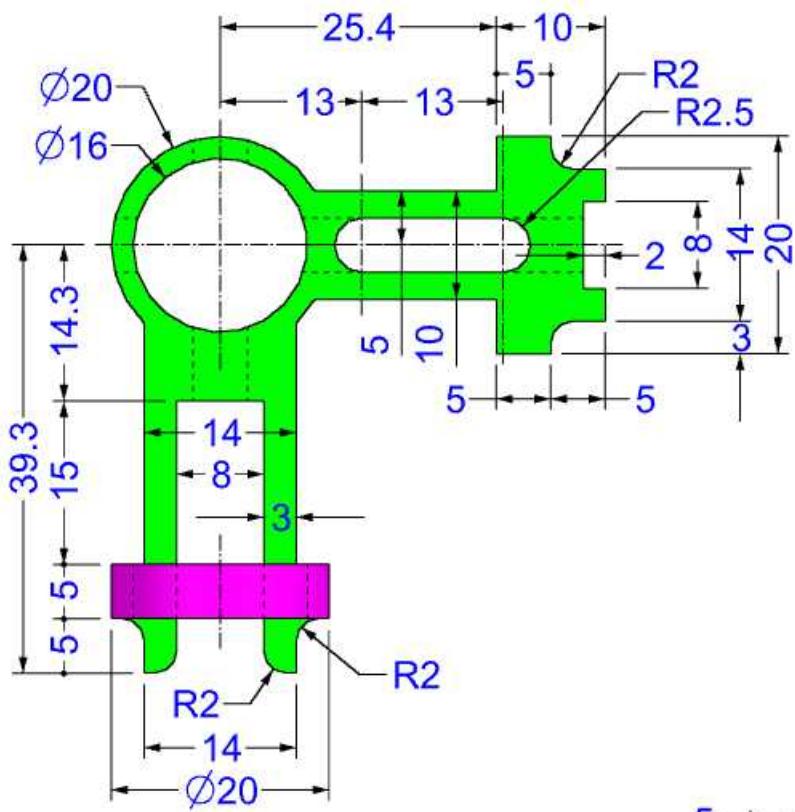
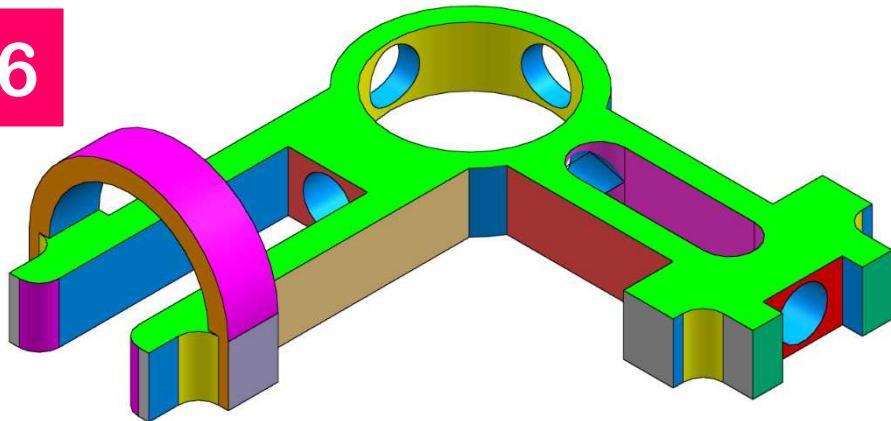
EXERCISE-154



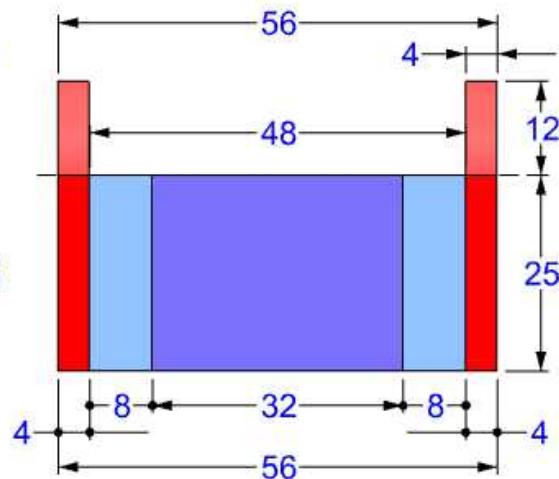
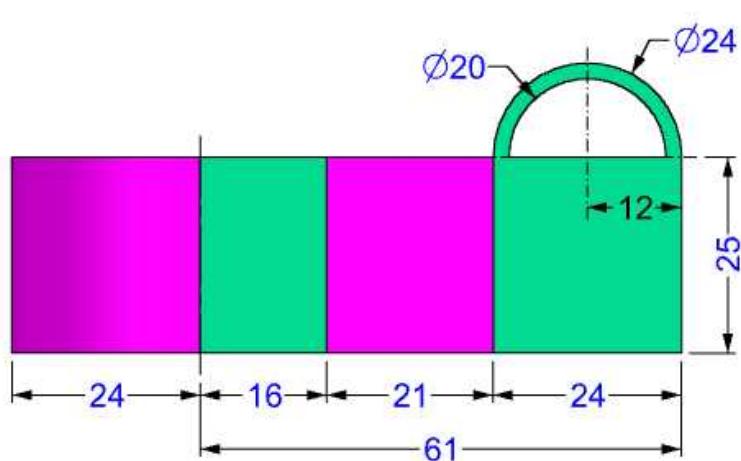
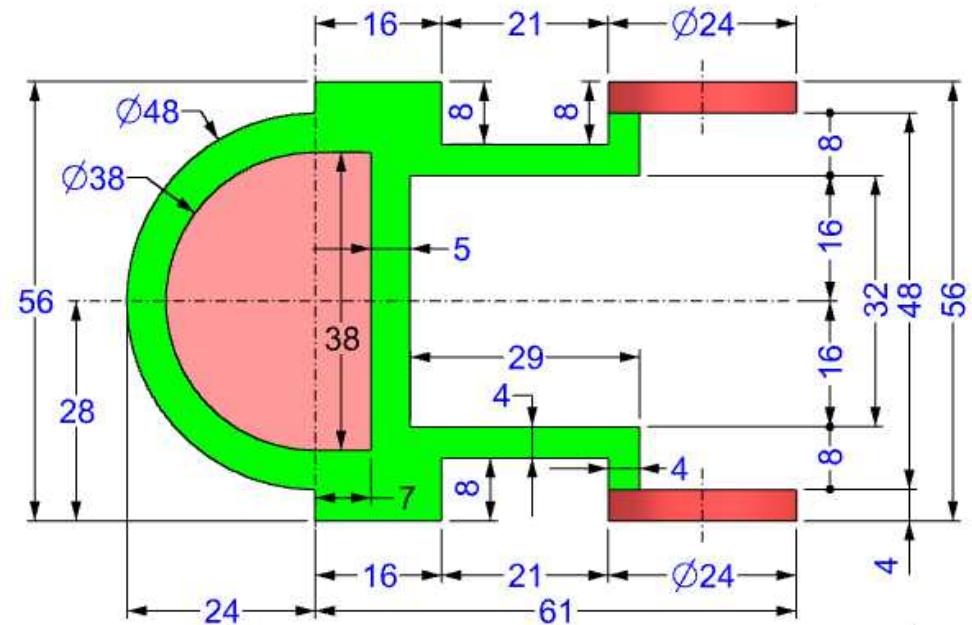
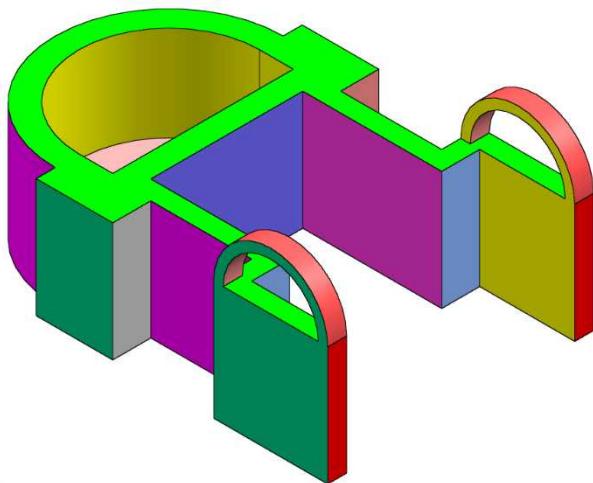
EXERCISE-155



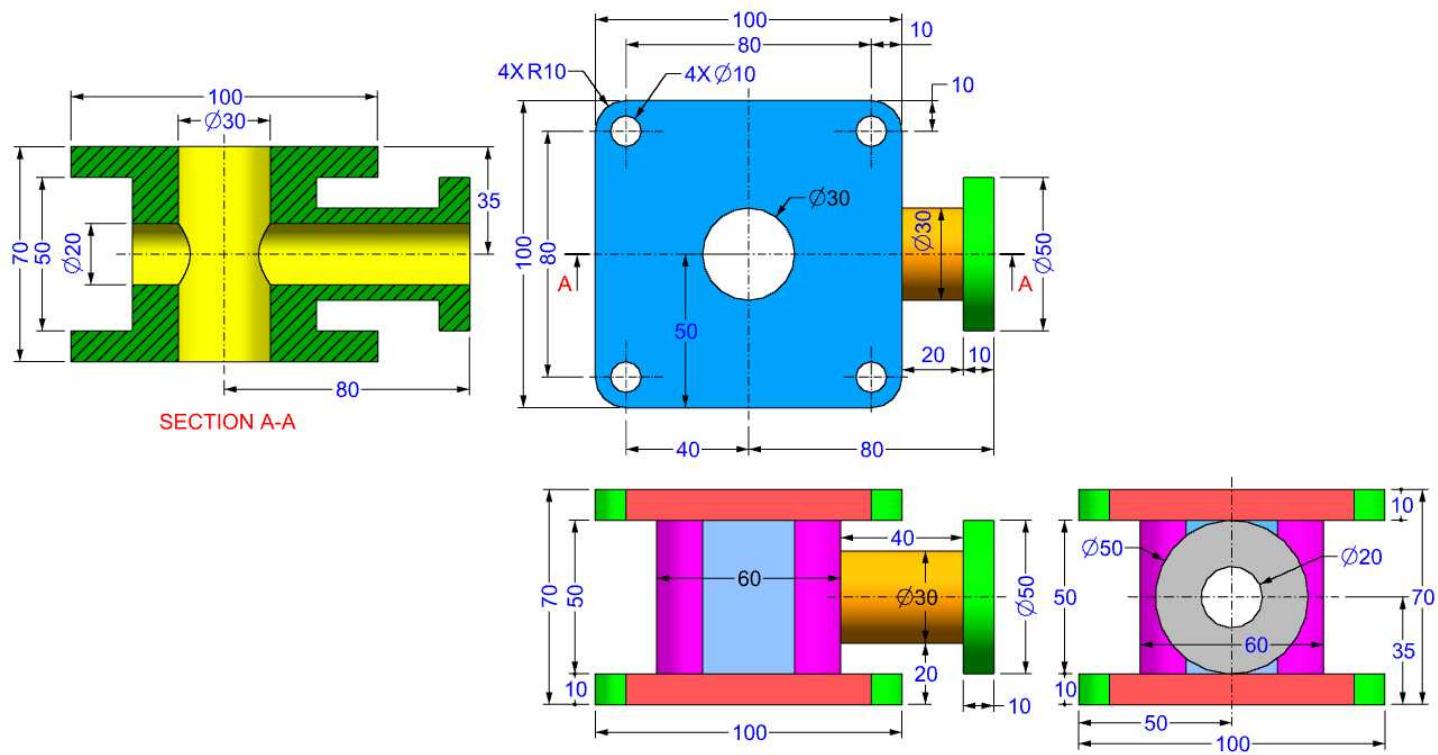
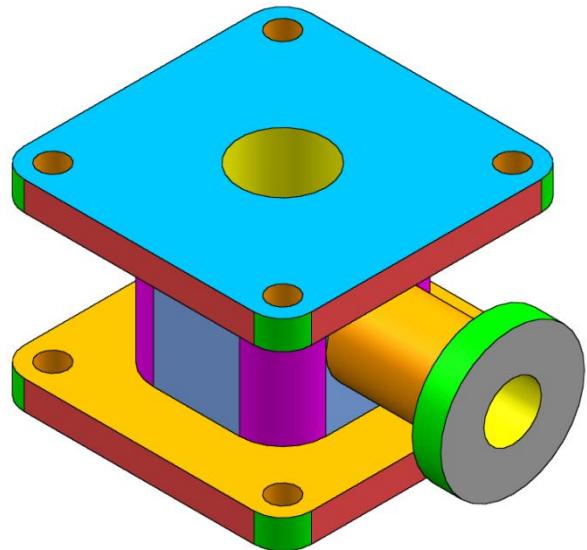
EXERCISE-156



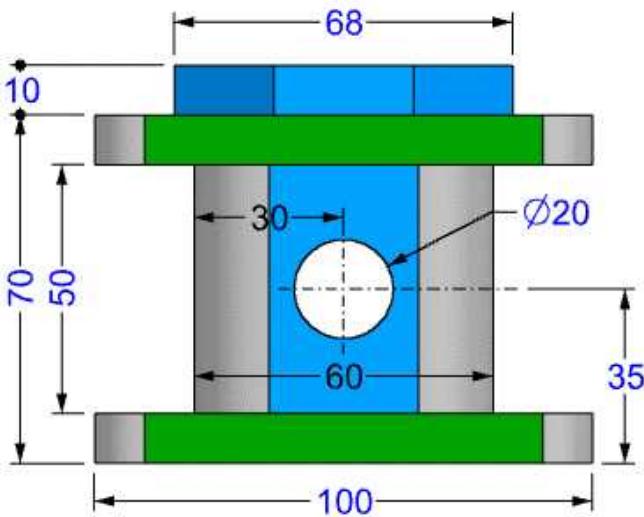
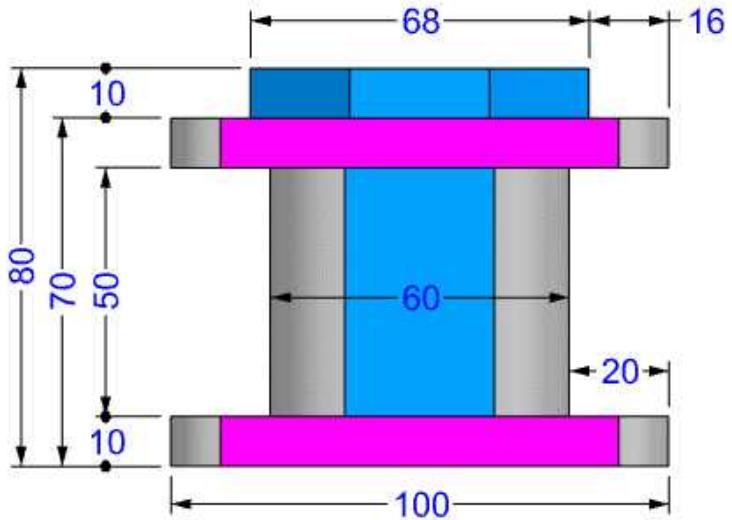
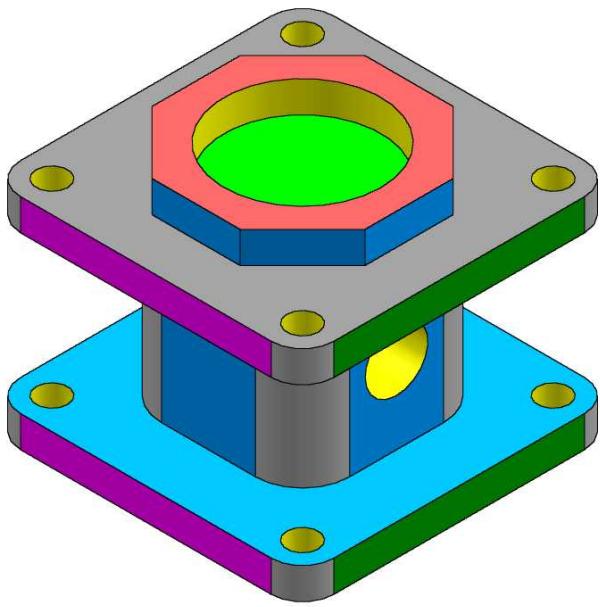
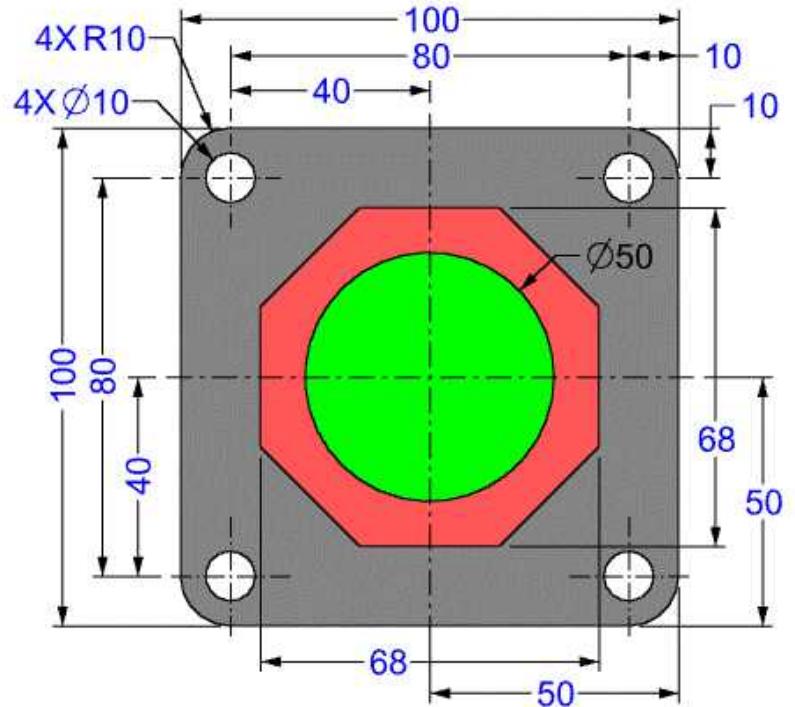
EXERCISE-157



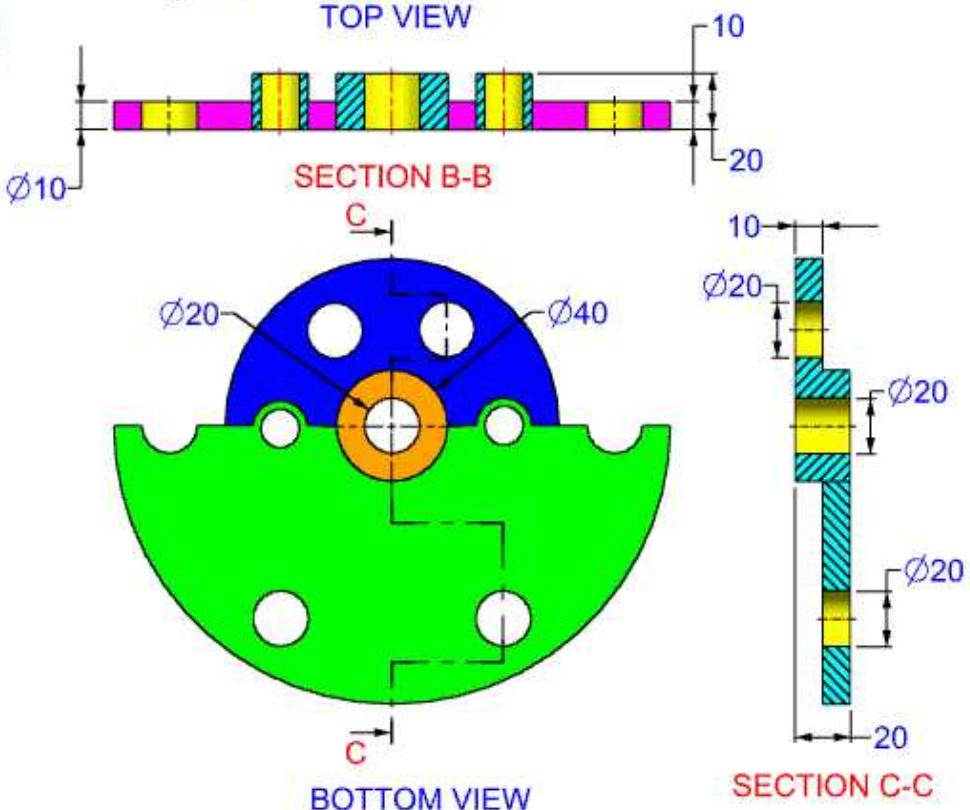
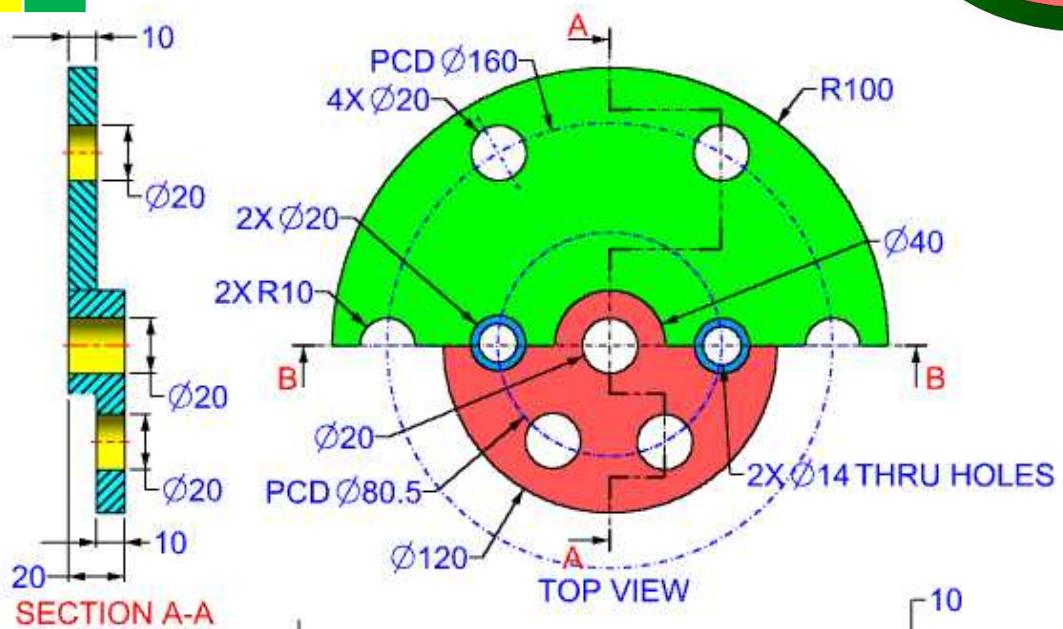
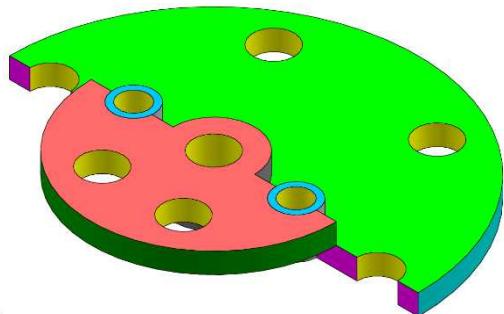
EXERCISE-158



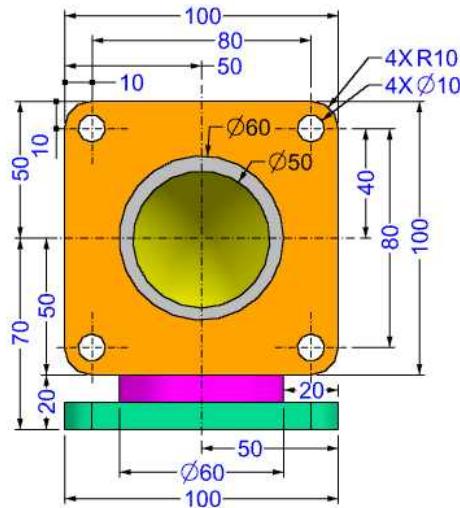
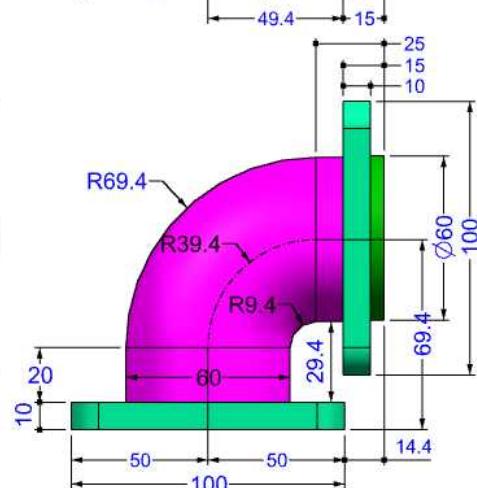
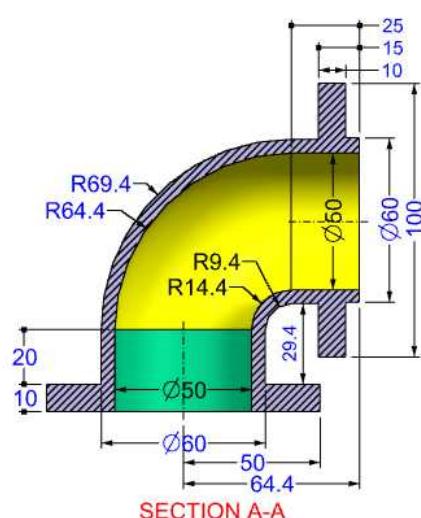
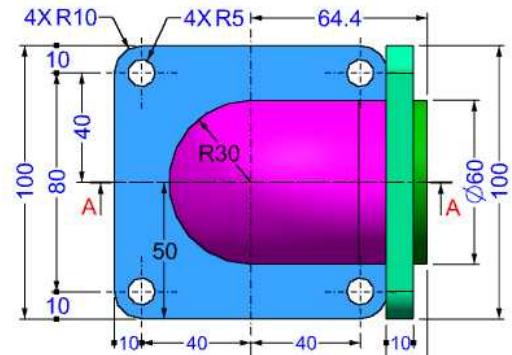
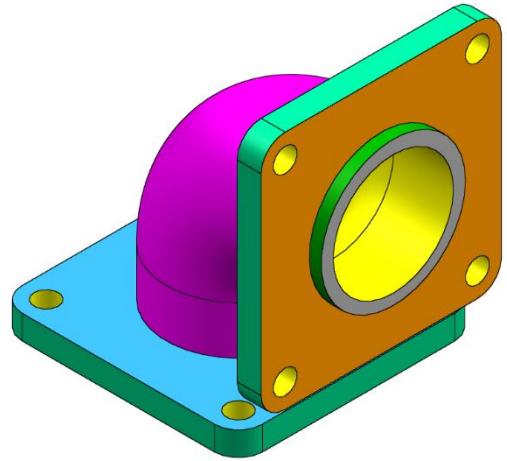
EXERCISE-159



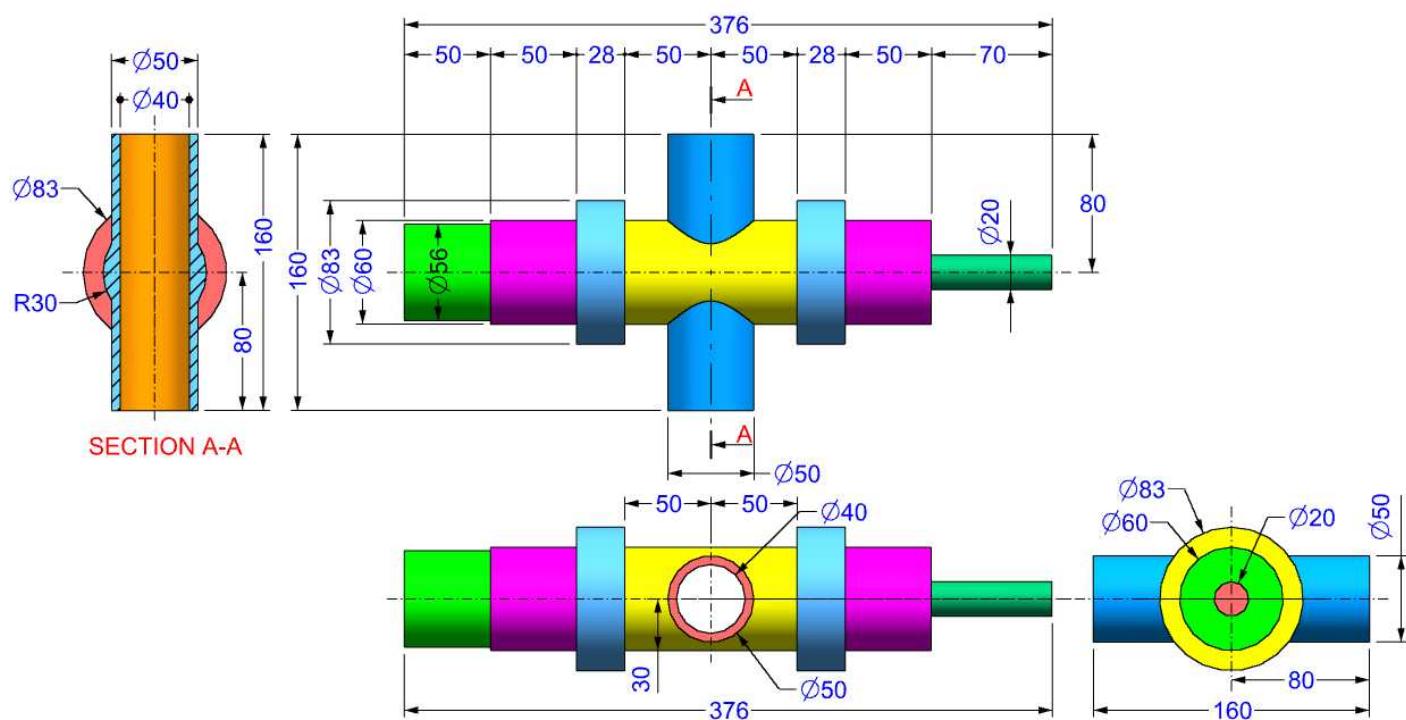
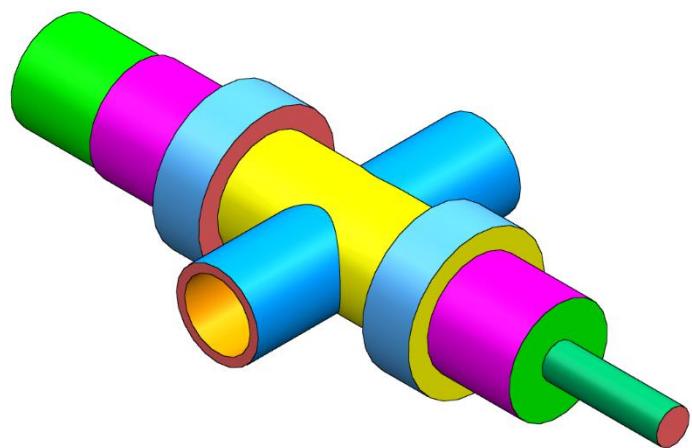
EXERCISE-160



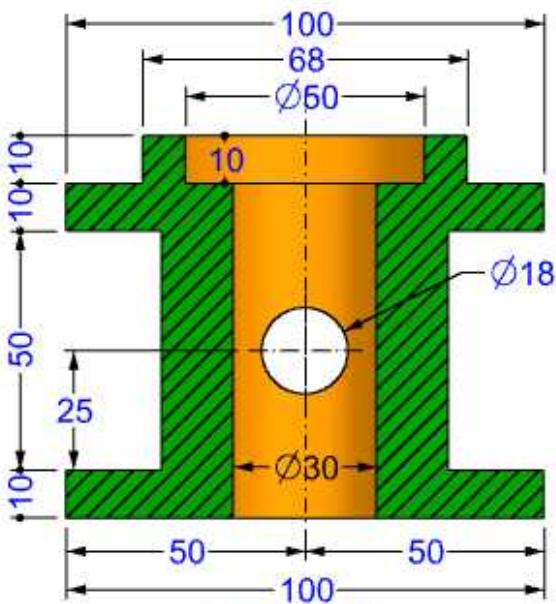
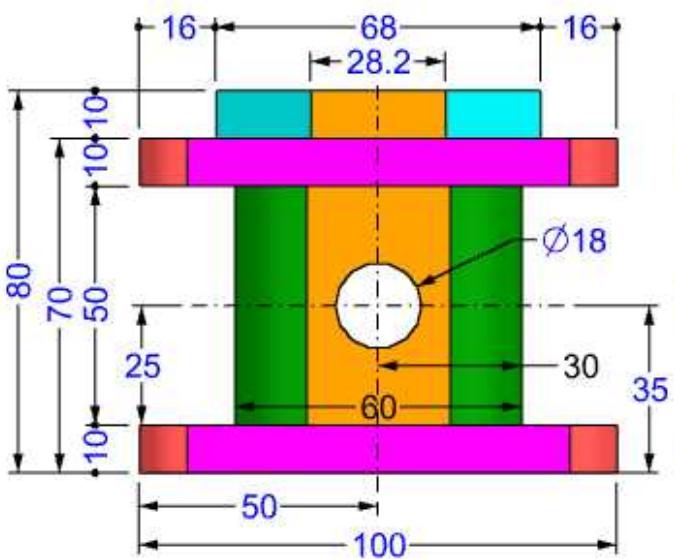
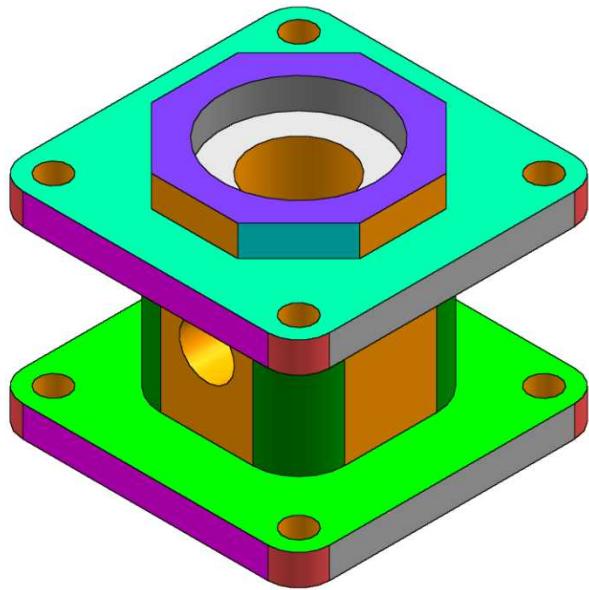
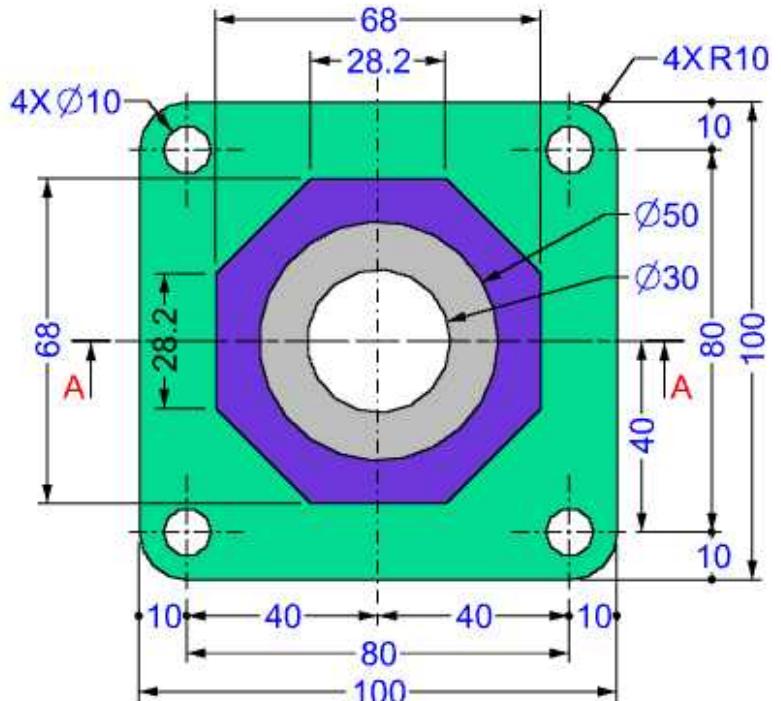
EXERCISE-161



EXERCISE-162

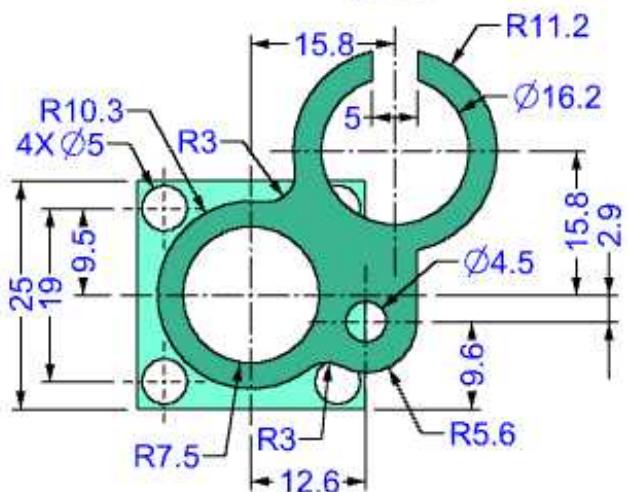
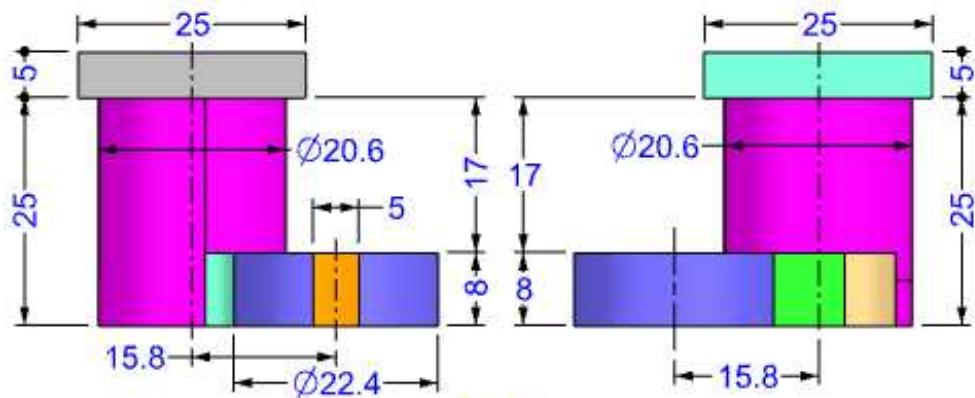
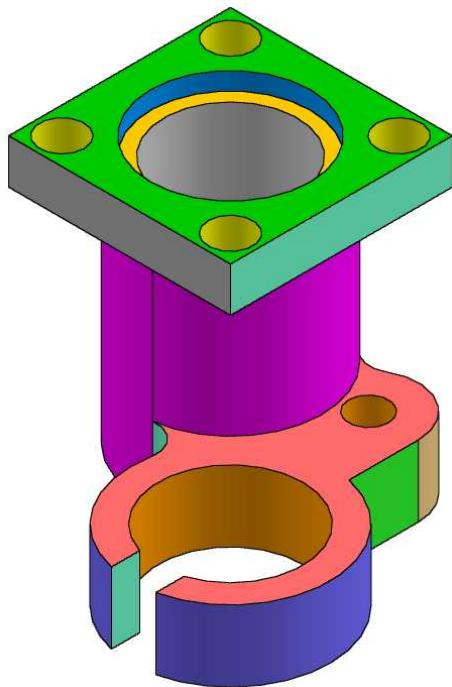
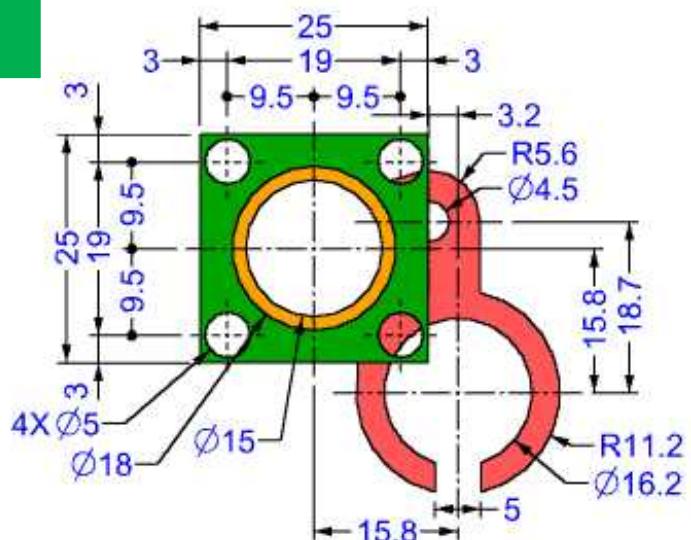


EXERCISE-163

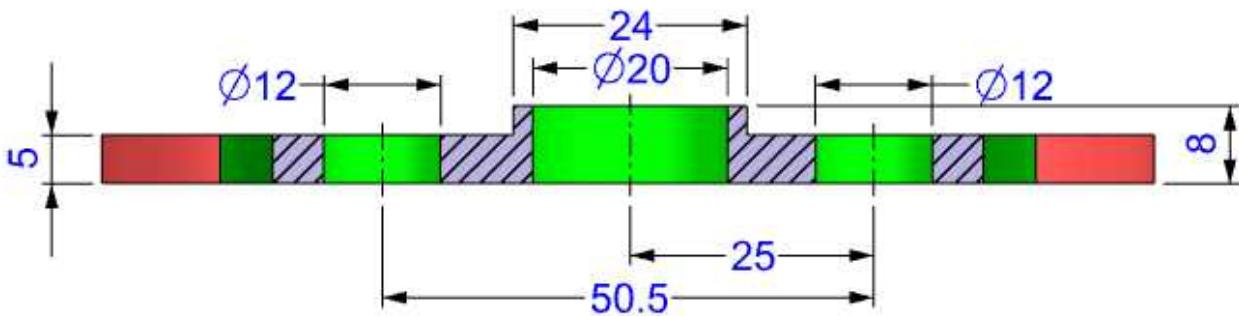
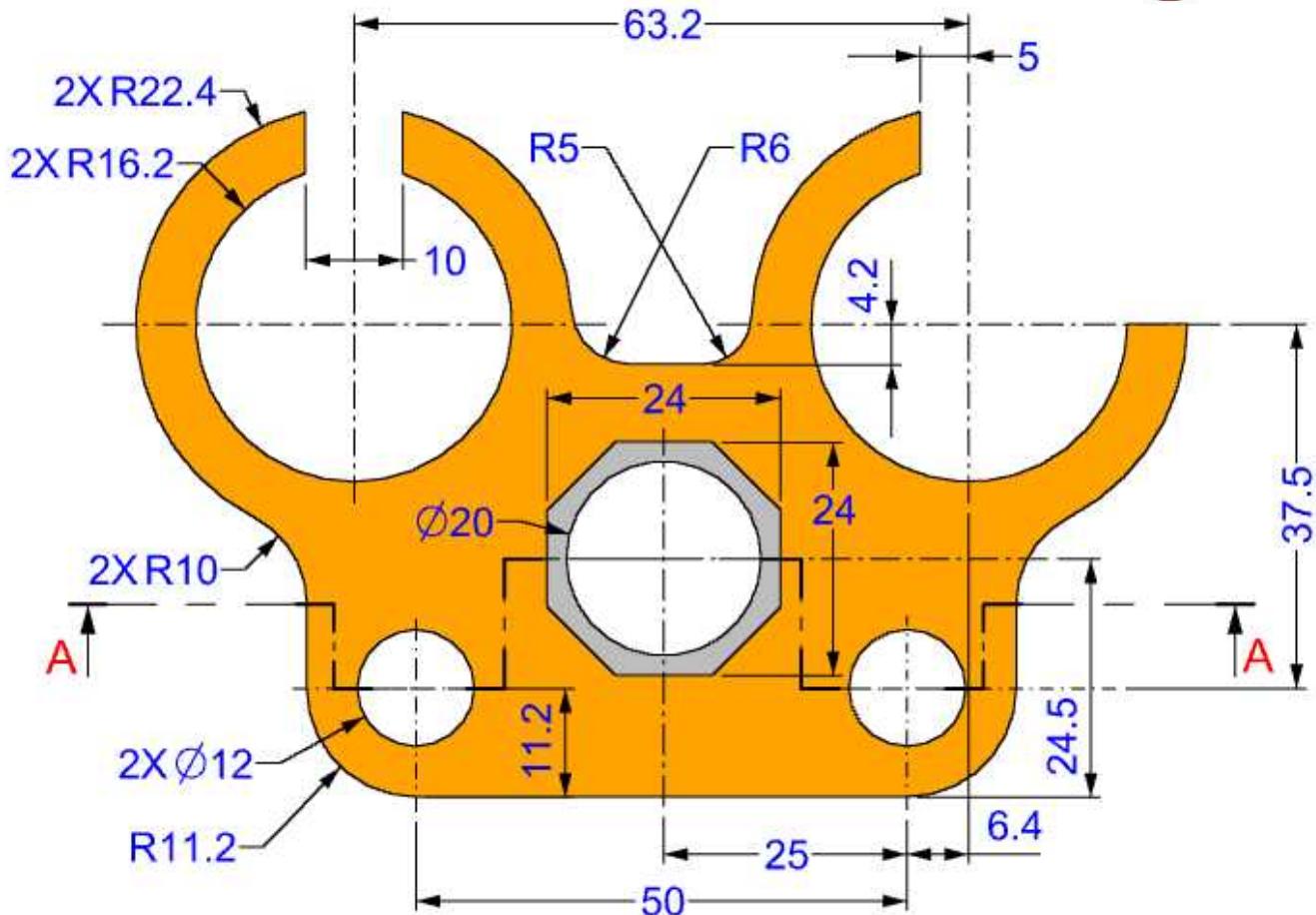
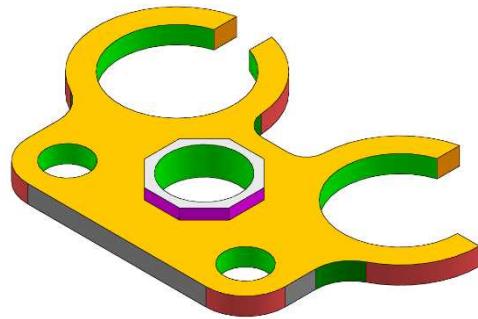


SECTION A-A

EXERCISE-164

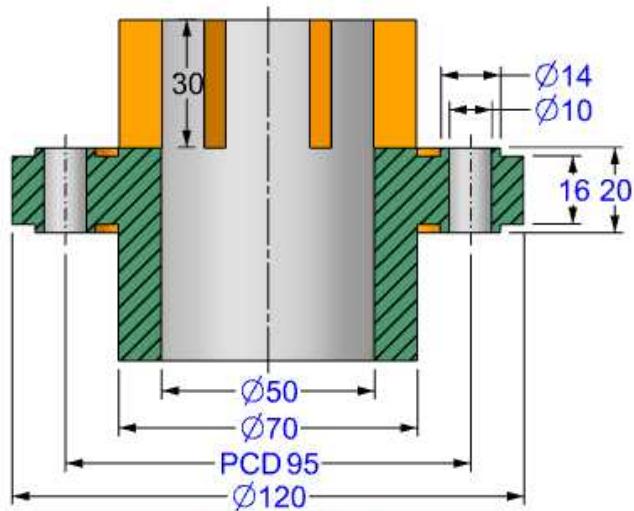
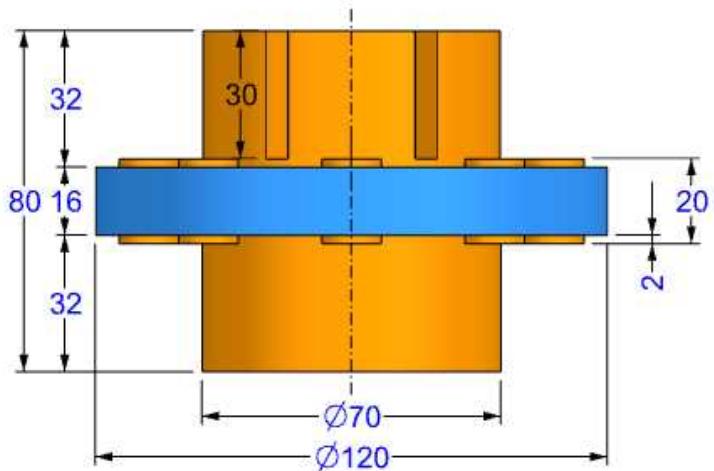
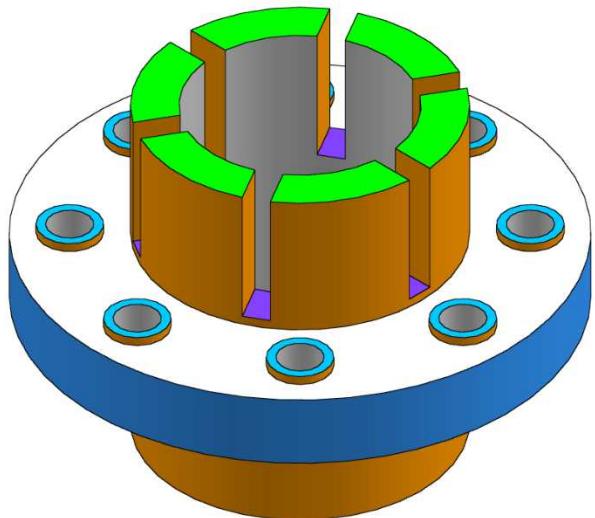
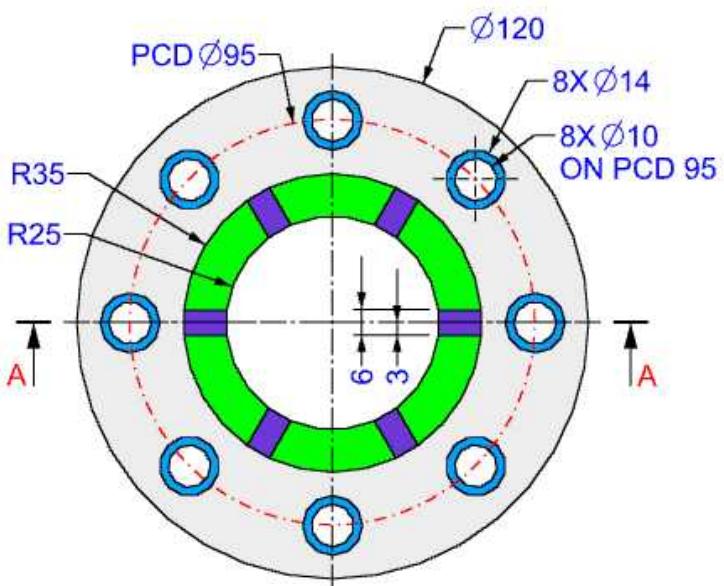


EXERCISE-165



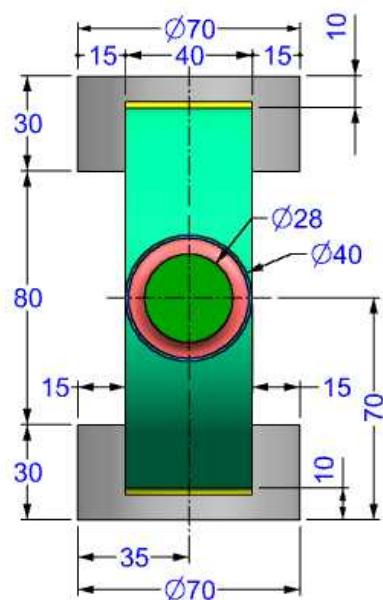
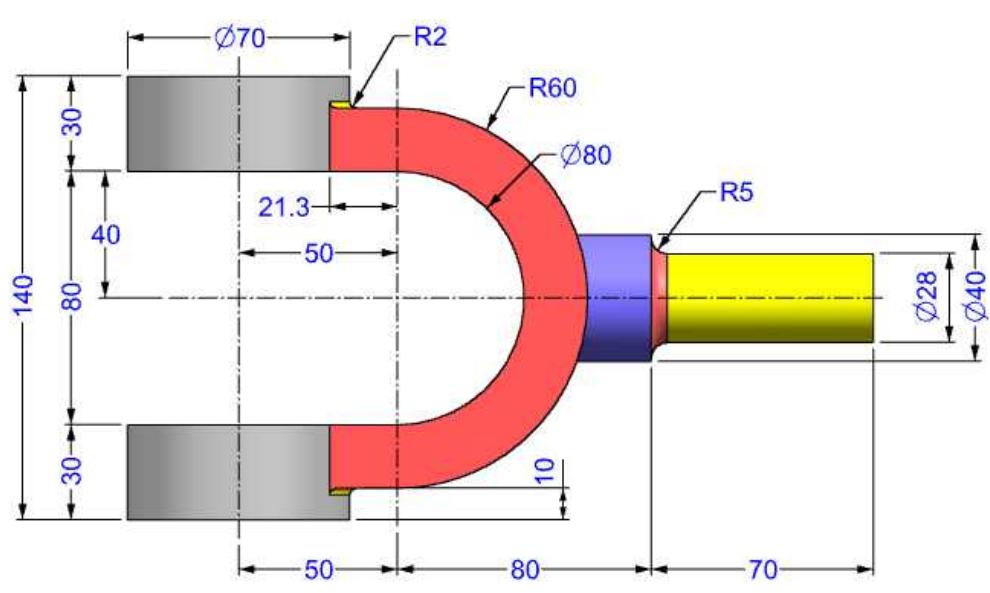
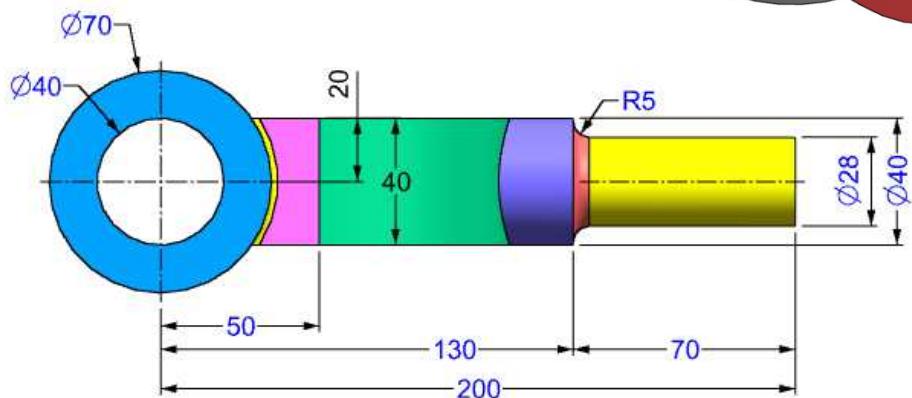
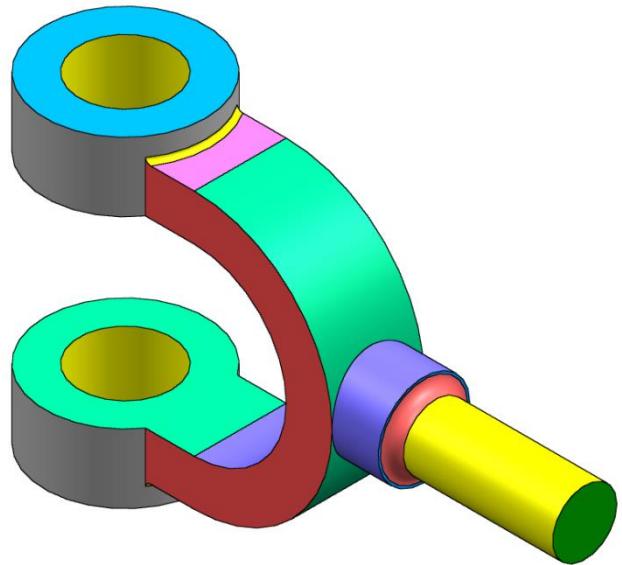
SECTION A-A

EXERCISE-166

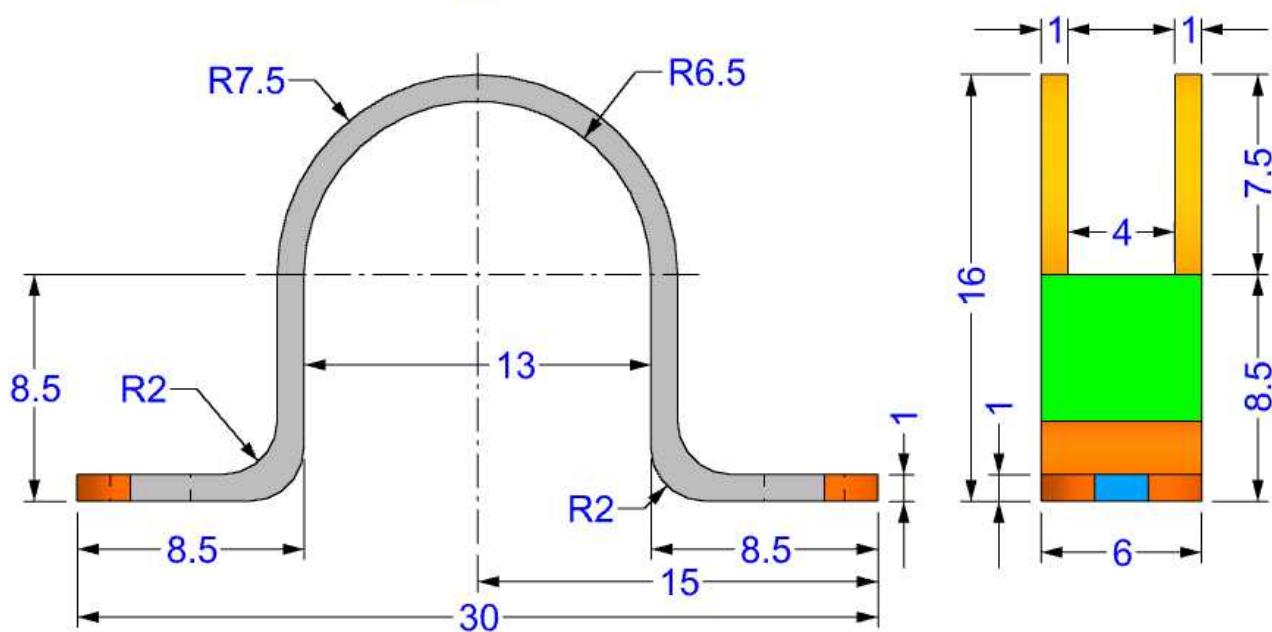
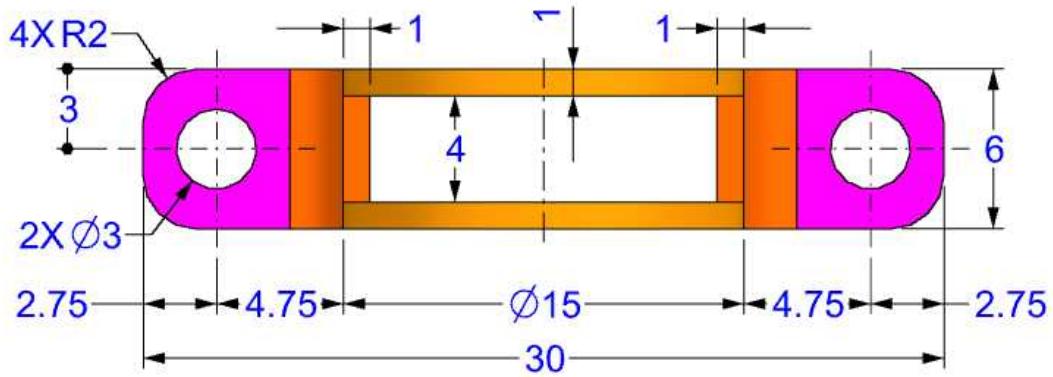
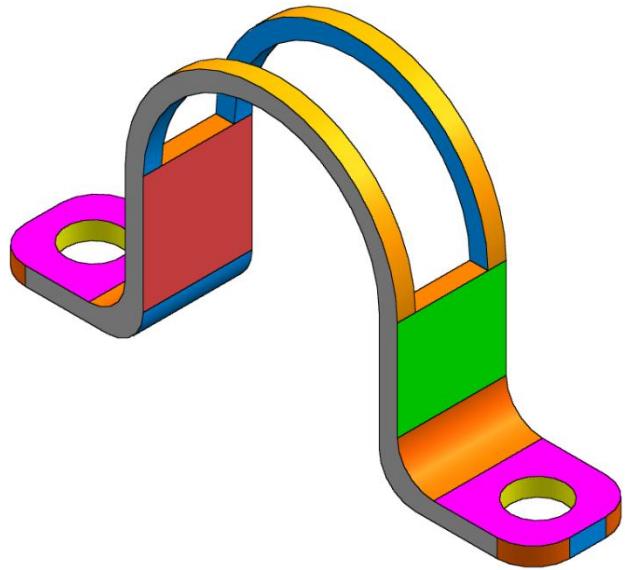


SECTION A-A

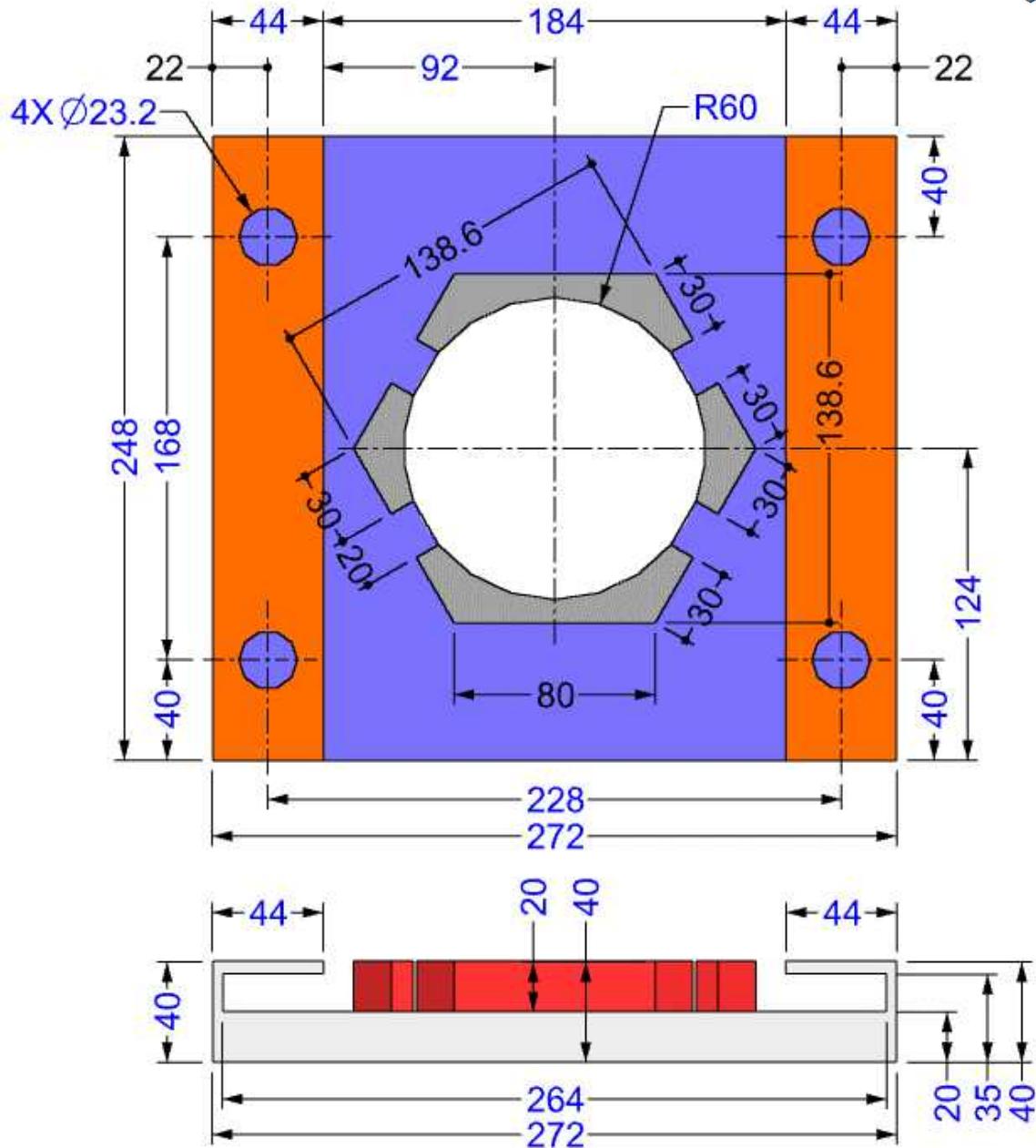
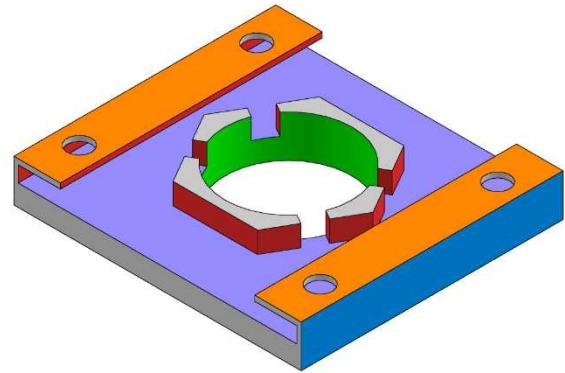
EXERCISE-167



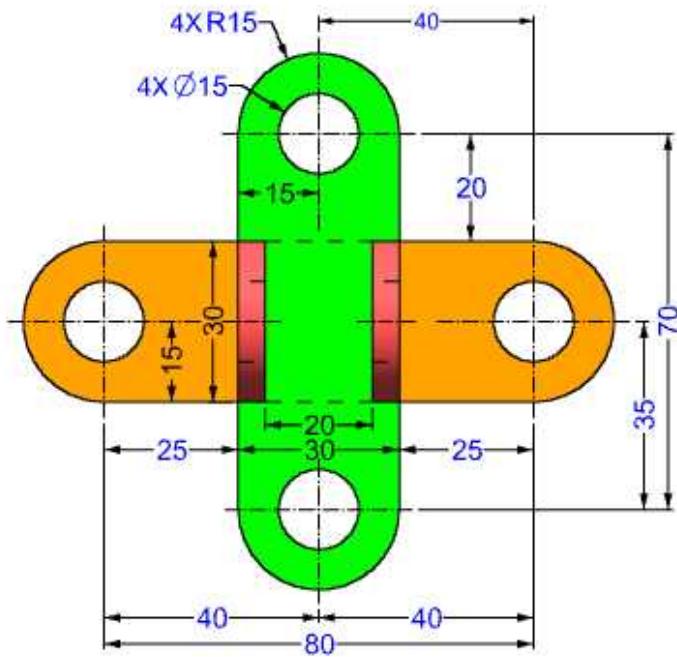
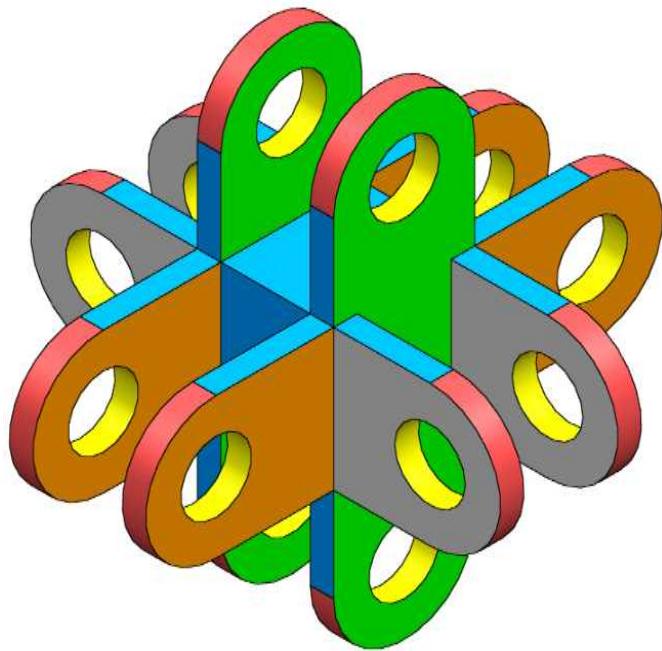
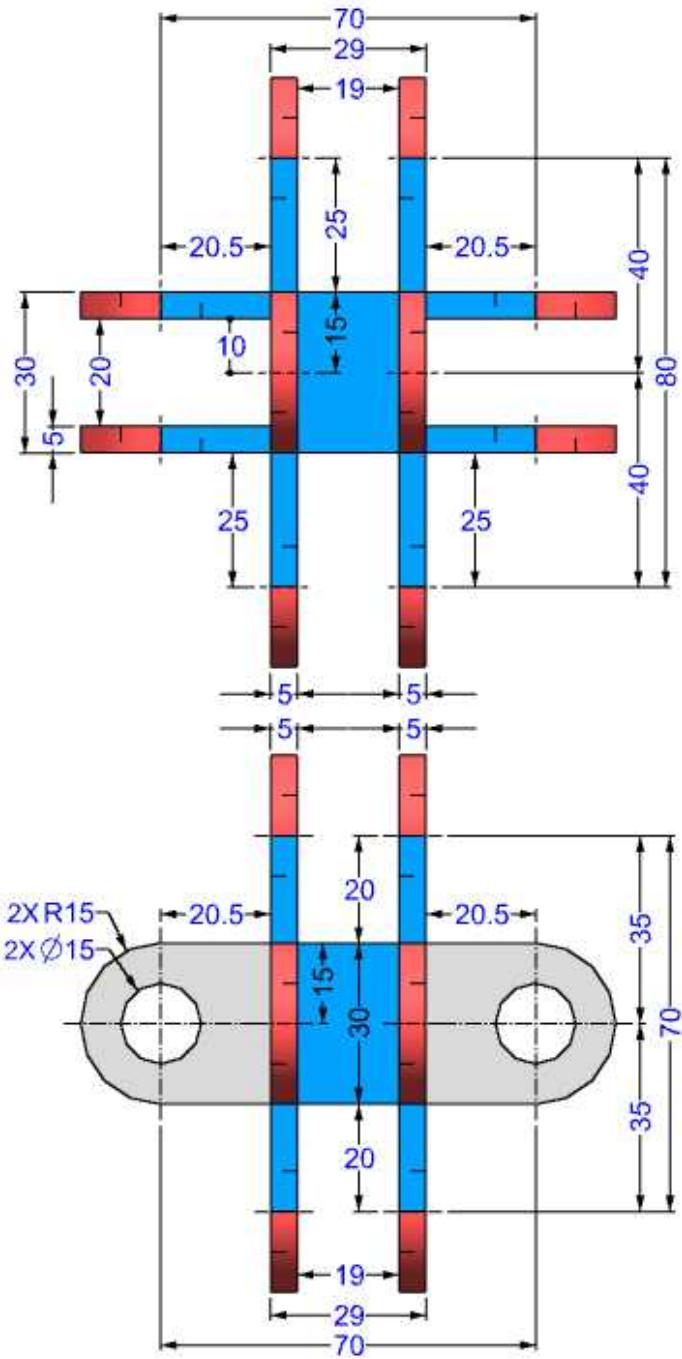
EXERCISE-168



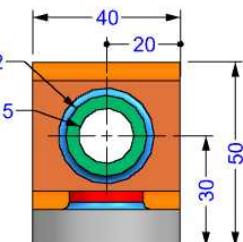
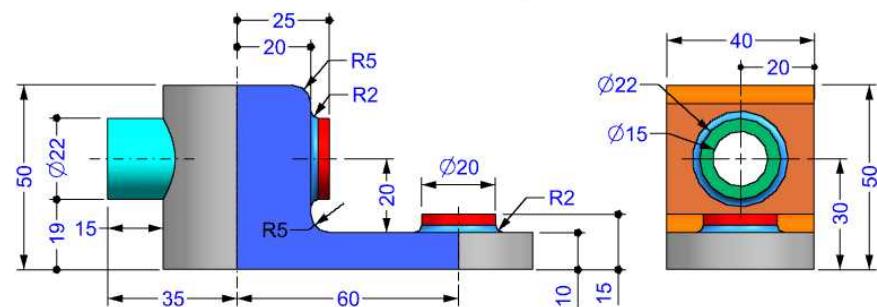
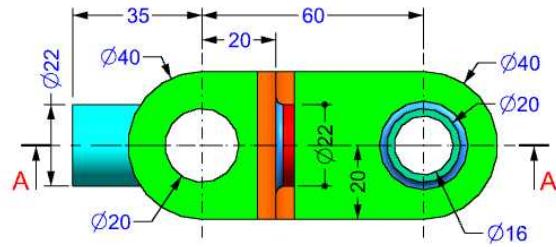
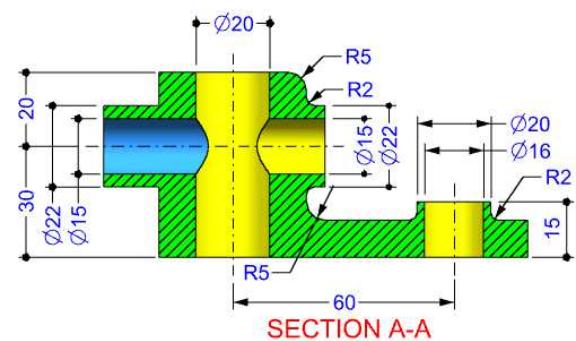
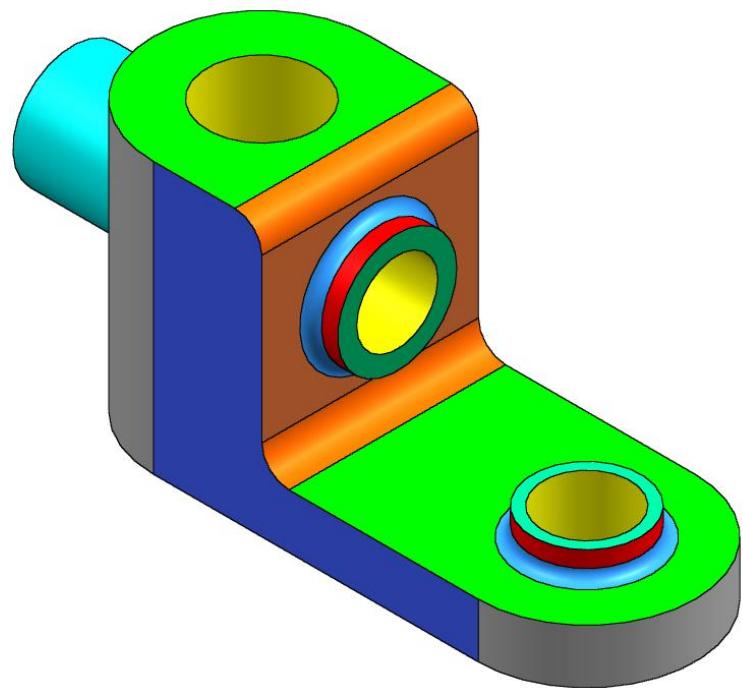
EXERCISE-169



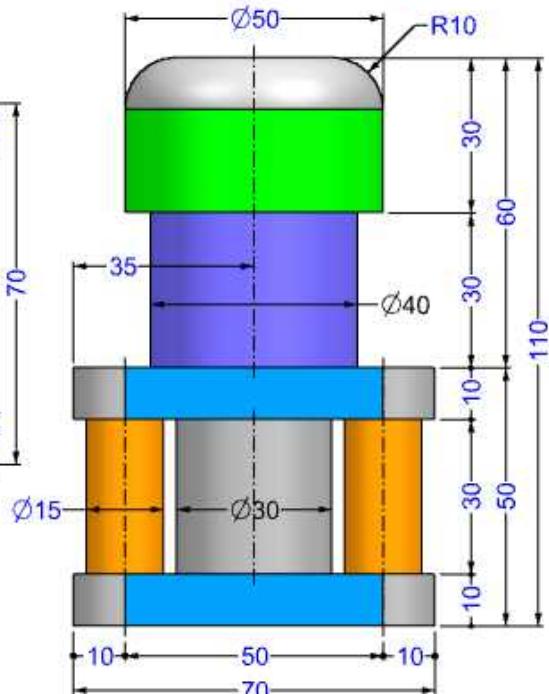
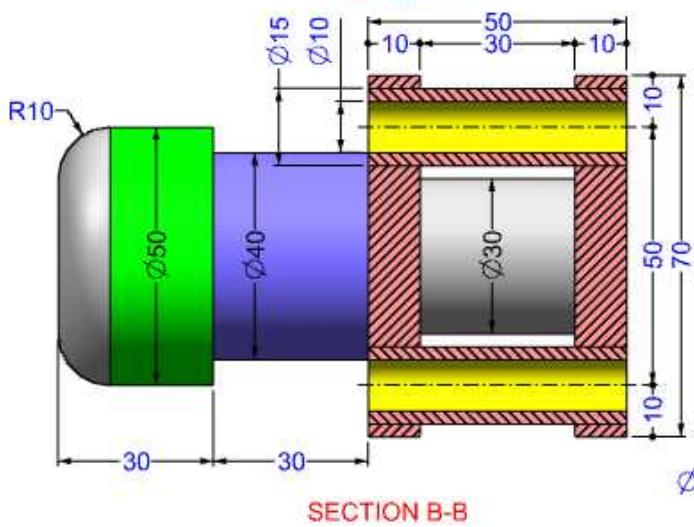
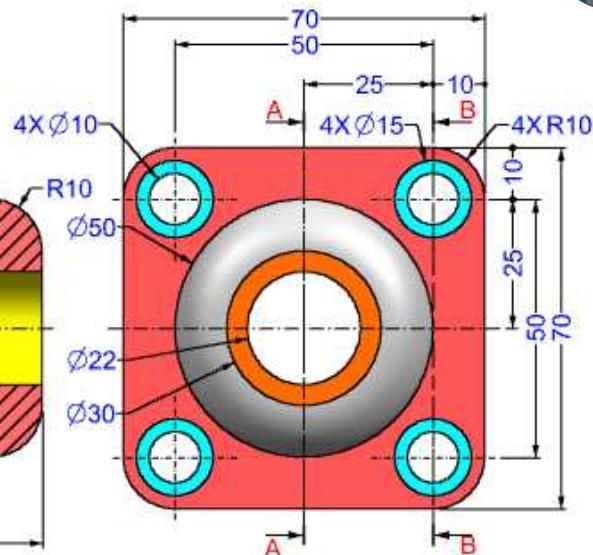
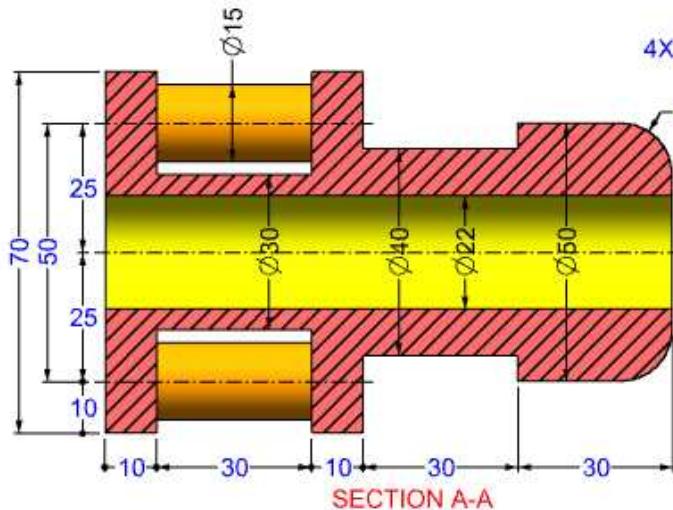
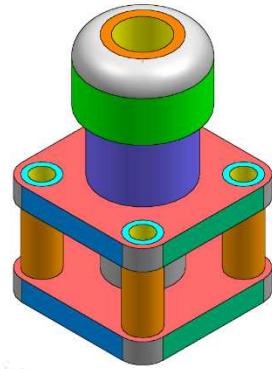
EXERCISE-170



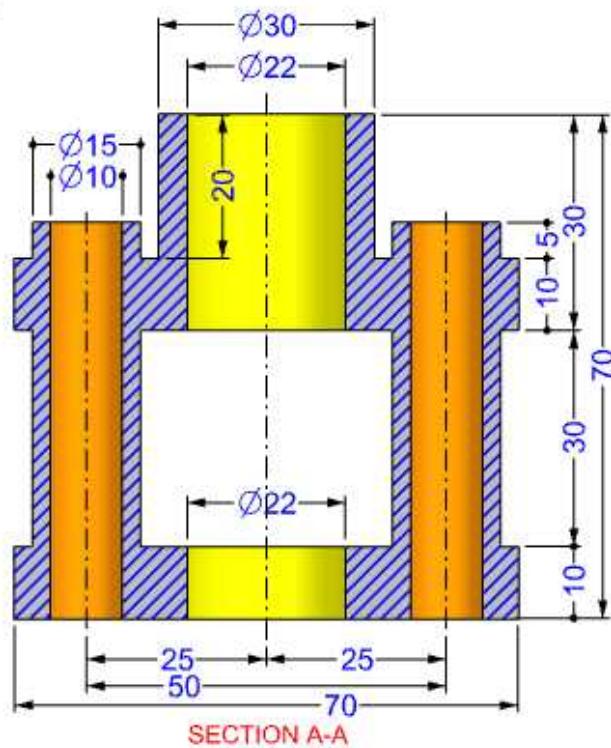
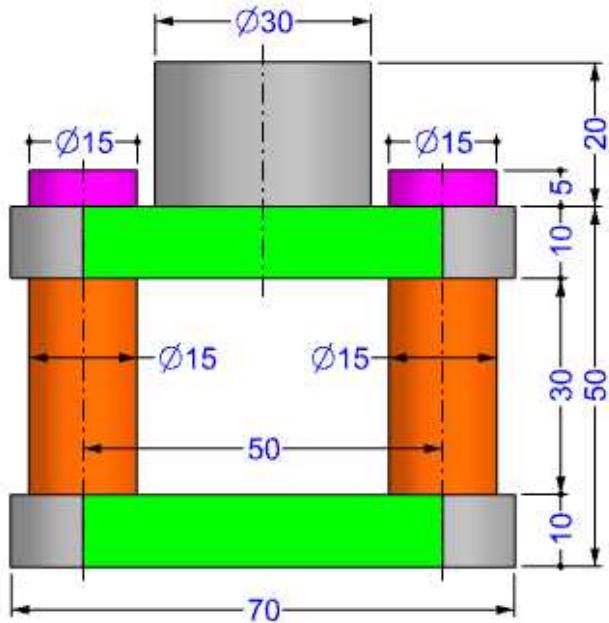
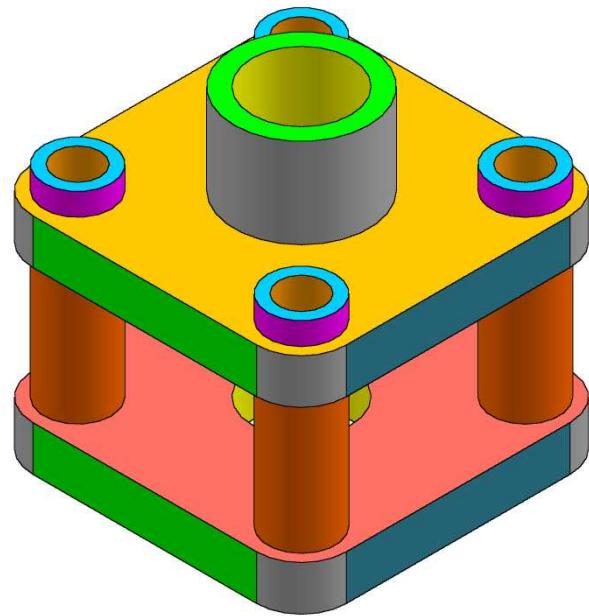
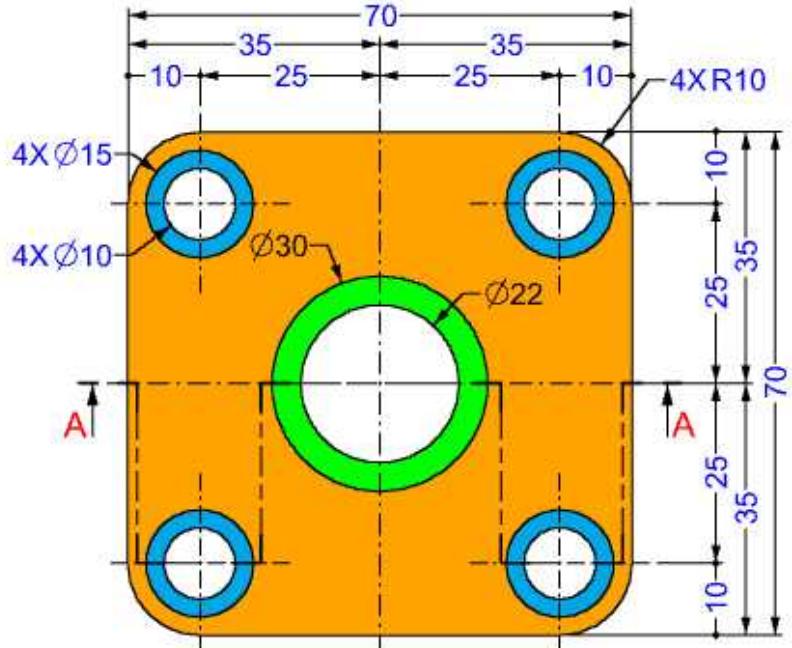
EXERCISE-171



EXERCISE-172

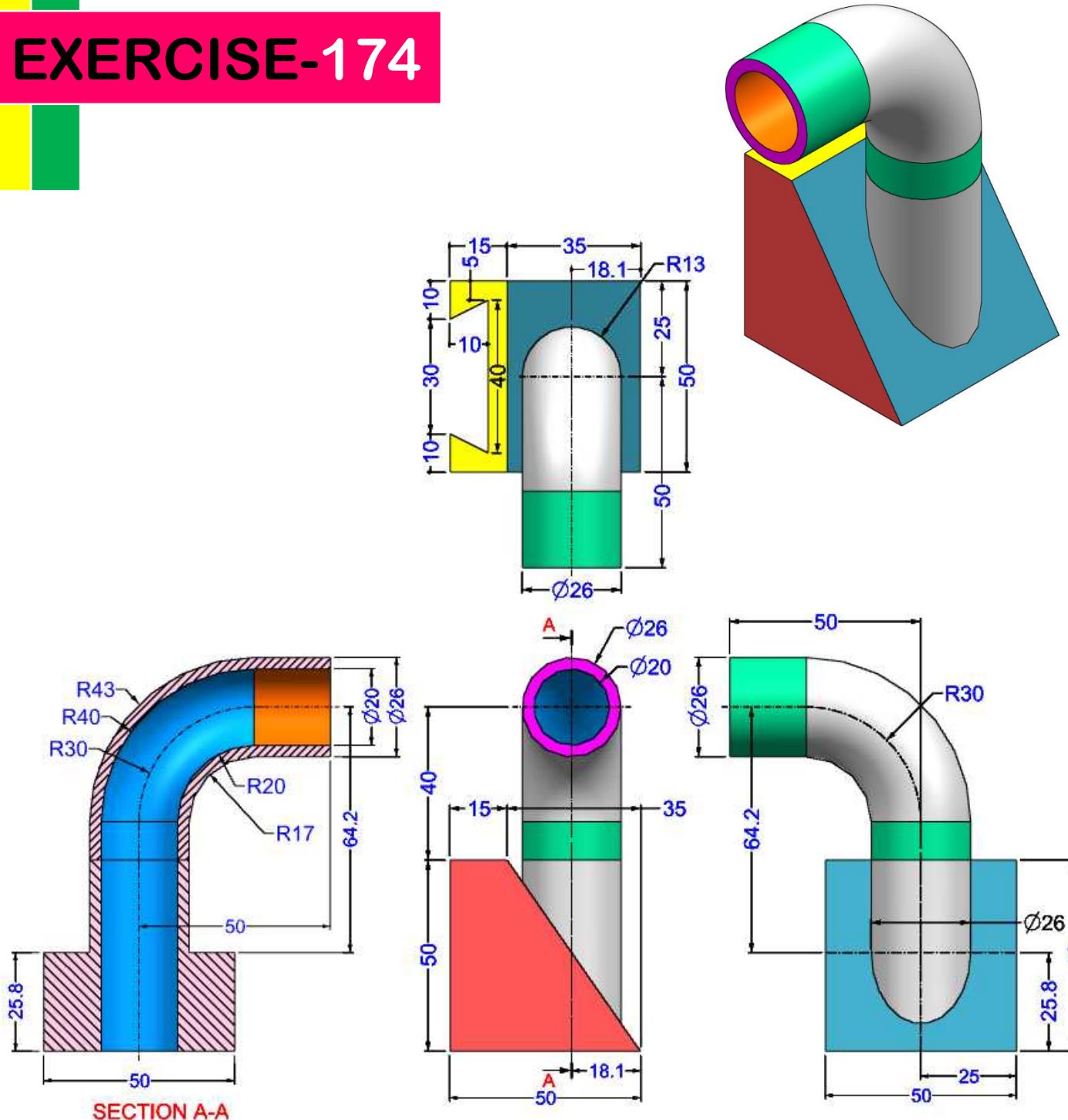


EXERCISE-173

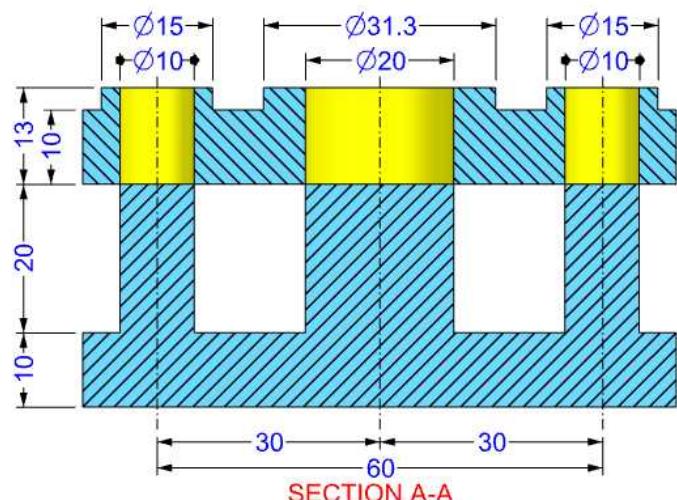
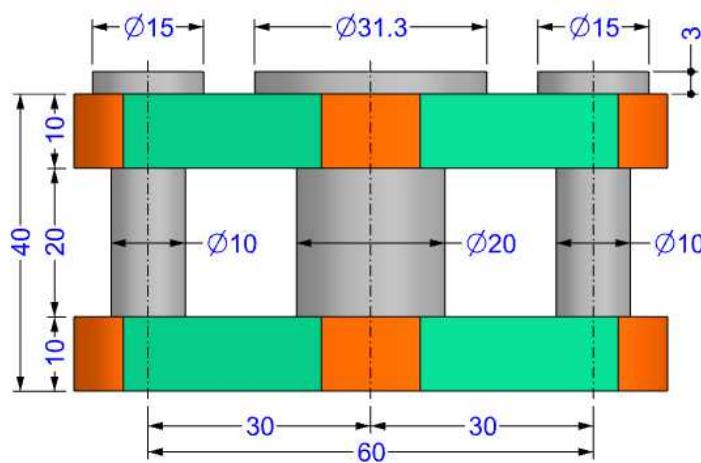
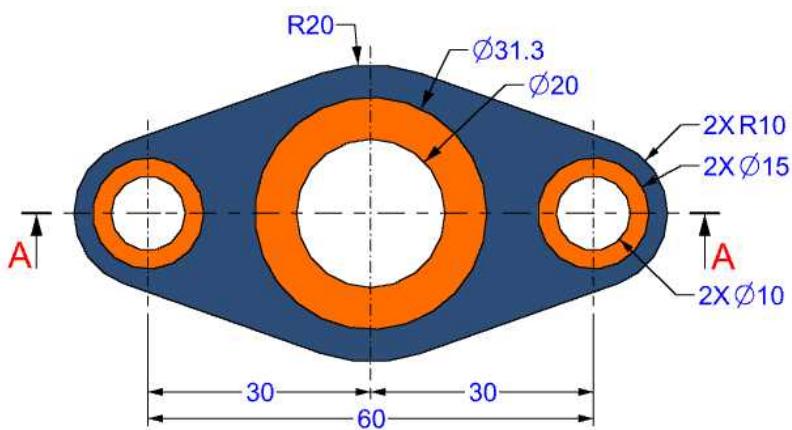
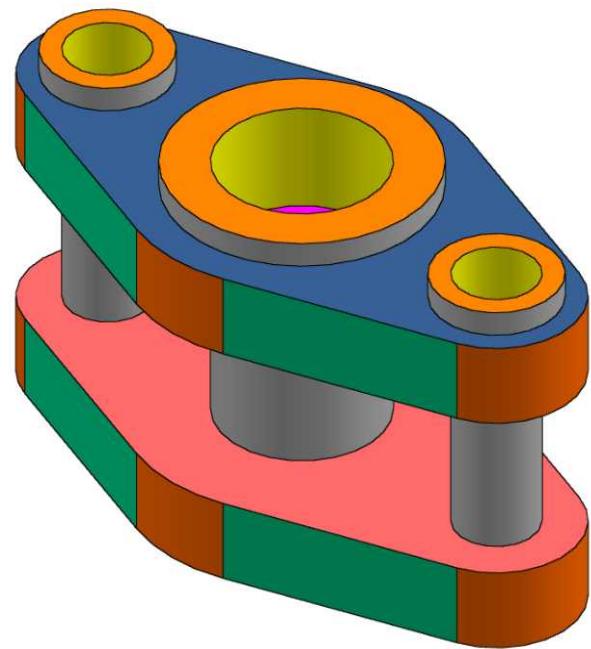


SECTION A-A

EXERCISE-174

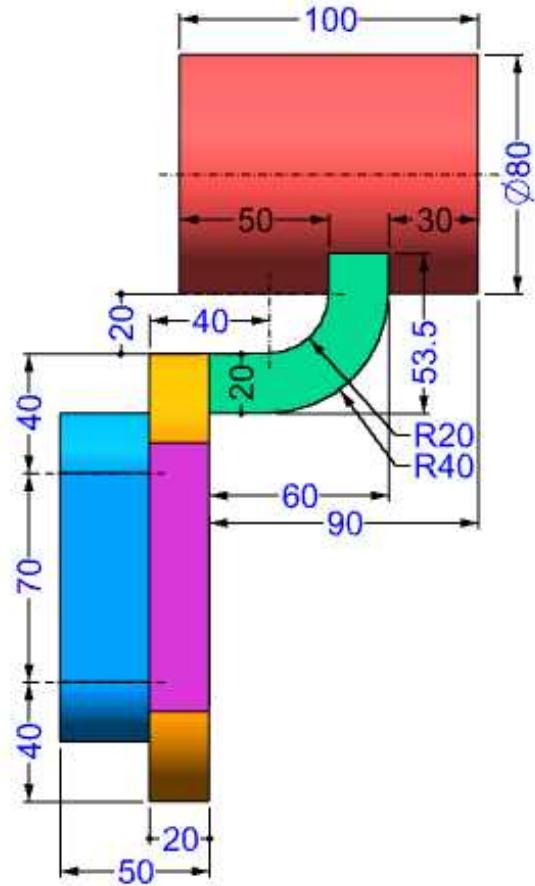
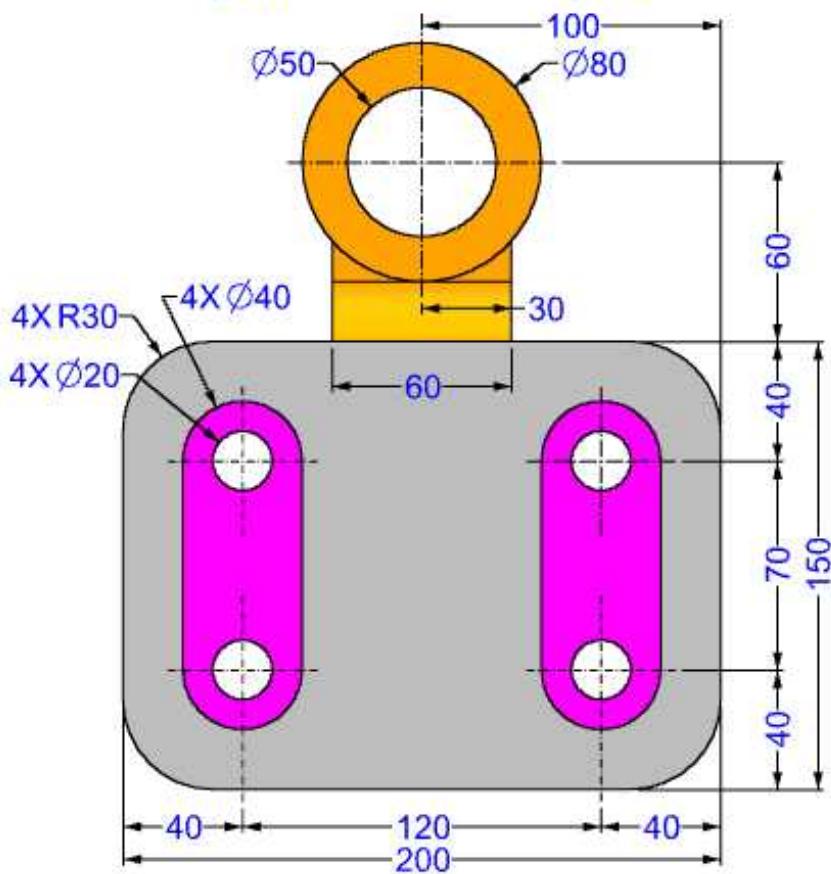
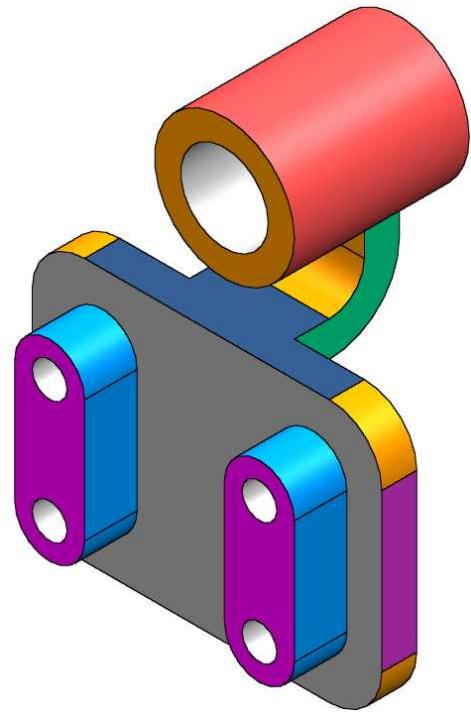
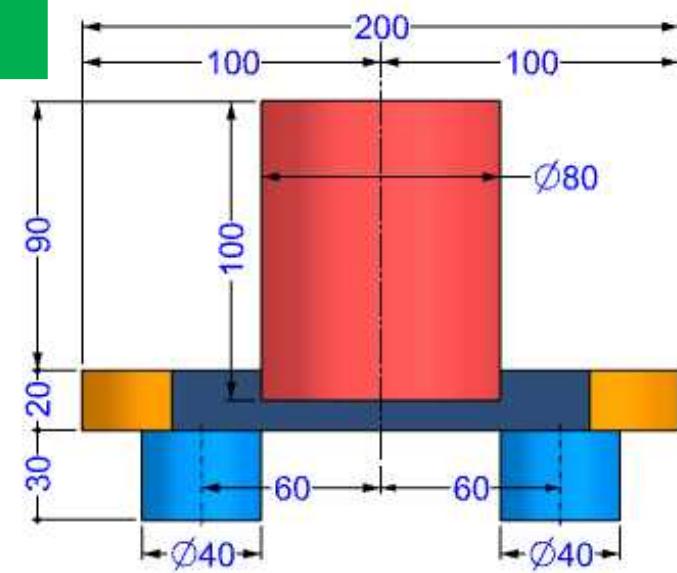


EXERCISE-175

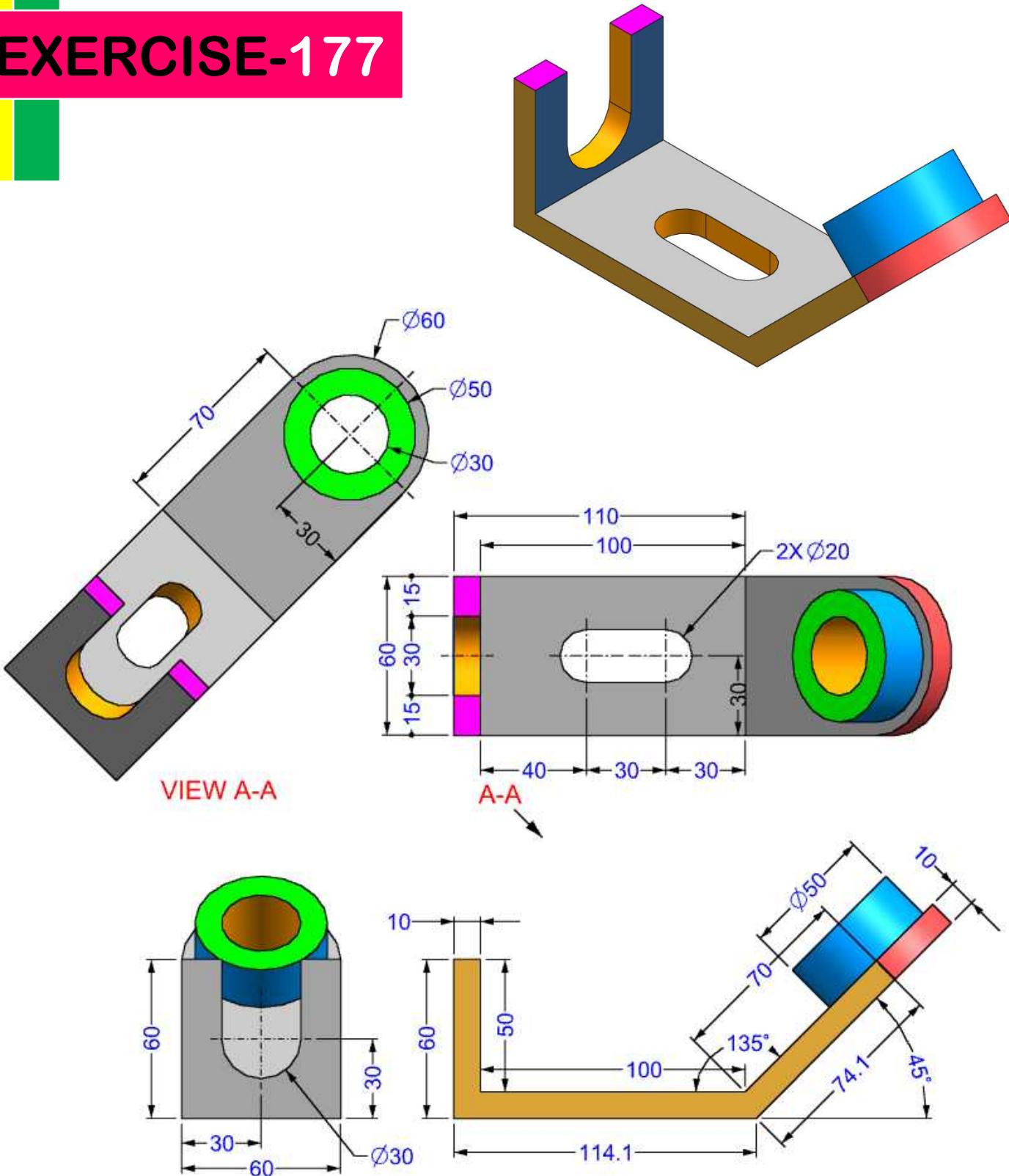


SECTION A-A

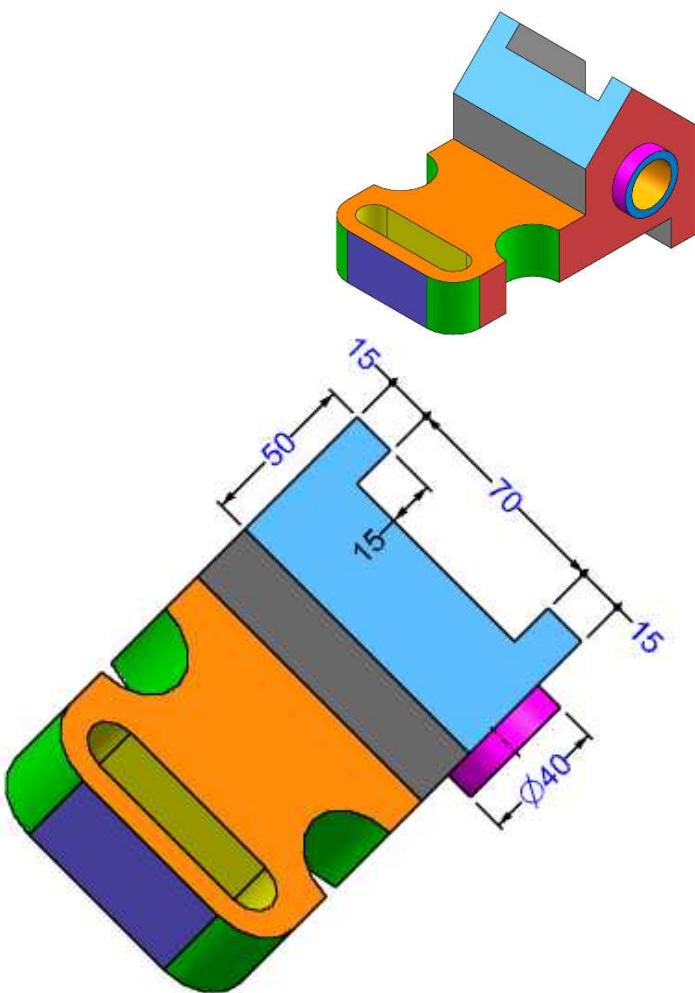
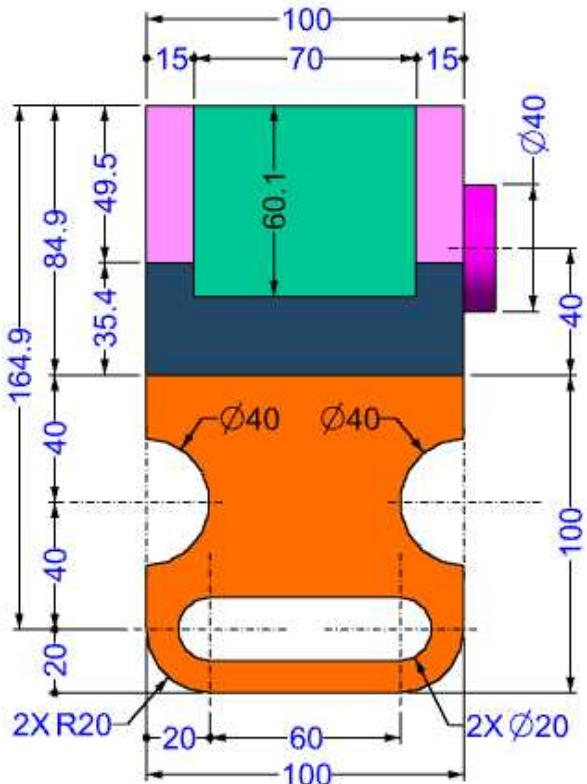
EXERCISE-176



EXERCISE-177

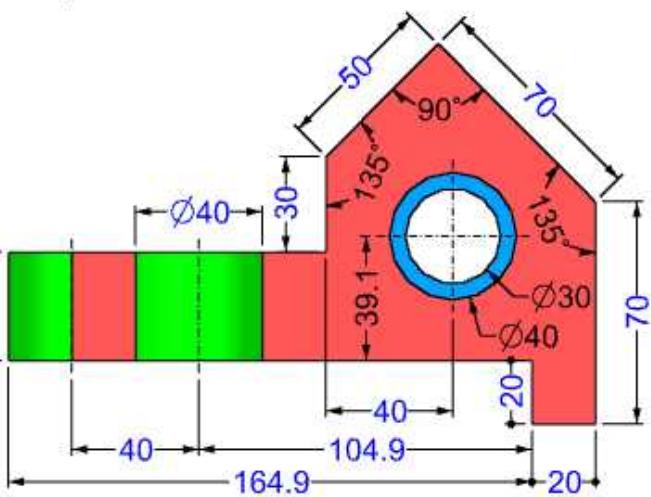
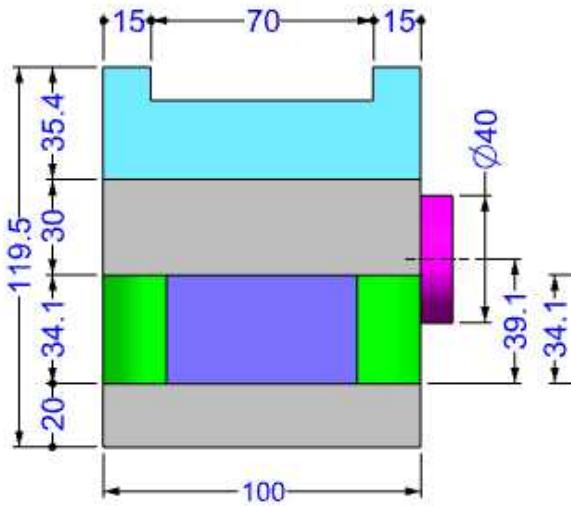


EXERCISE-178

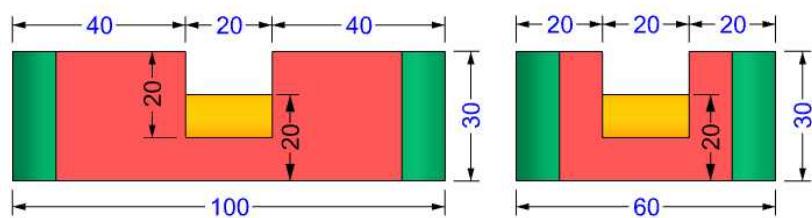
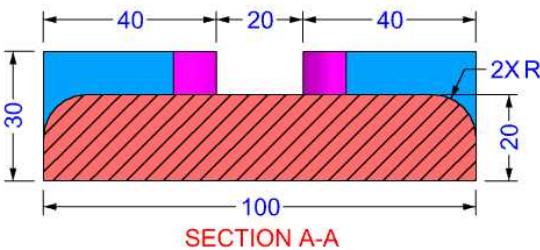
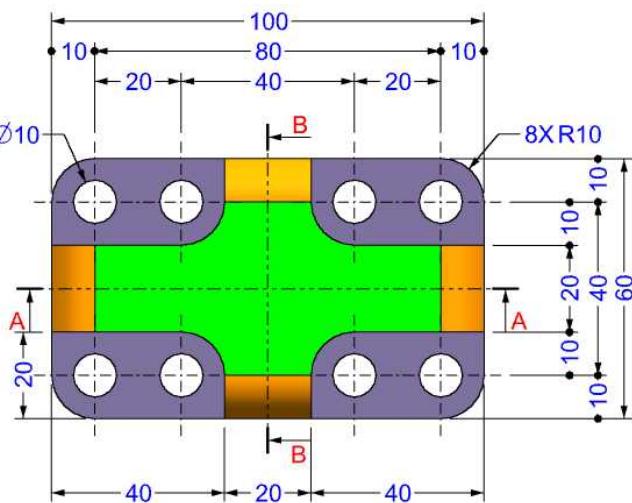
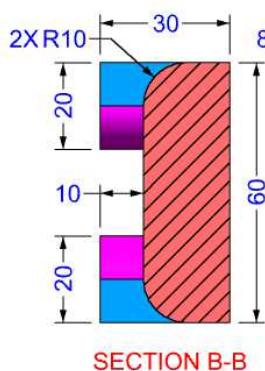
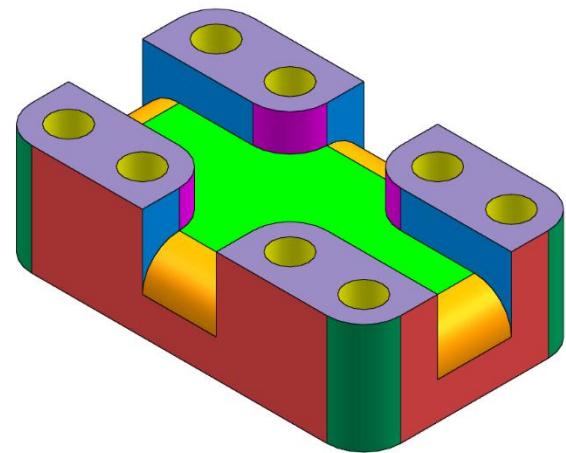


A-A

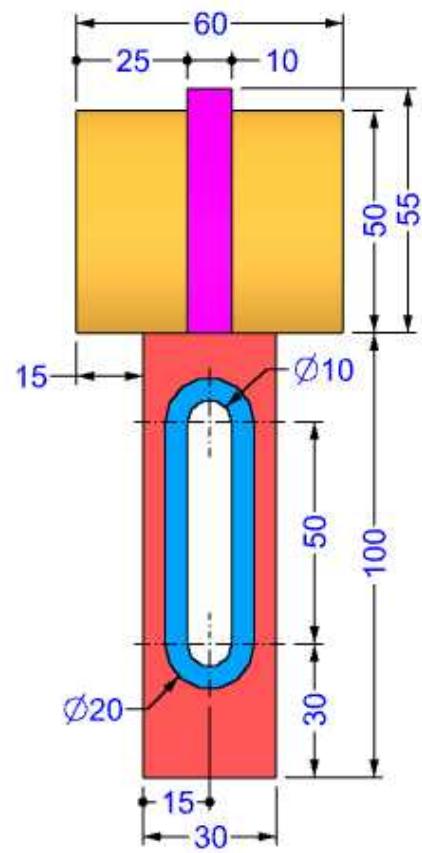
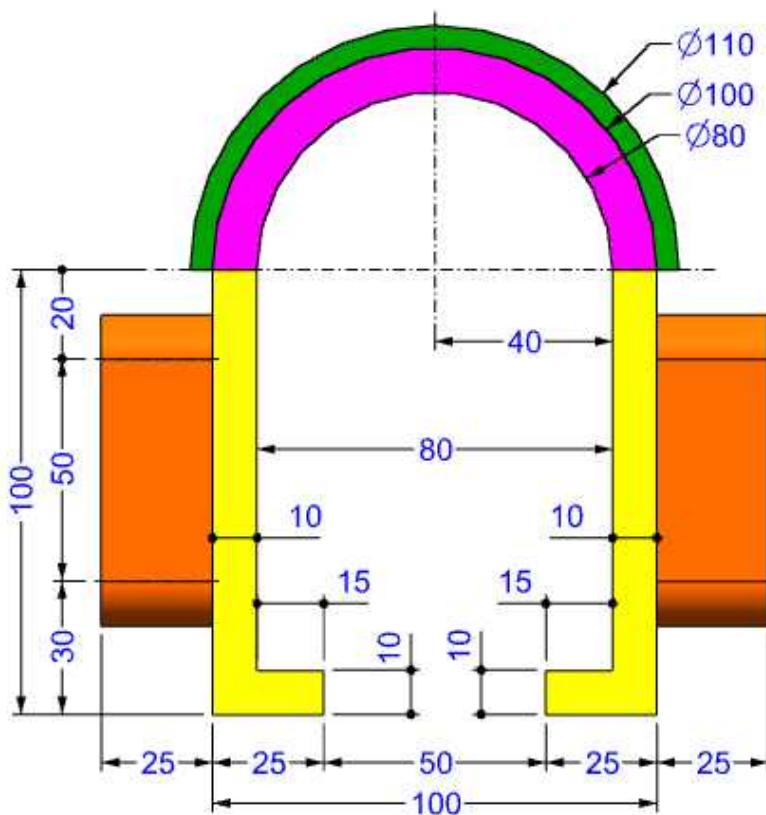
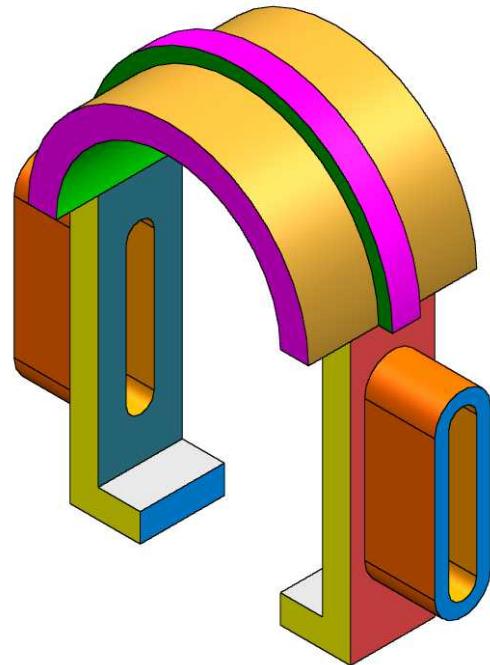
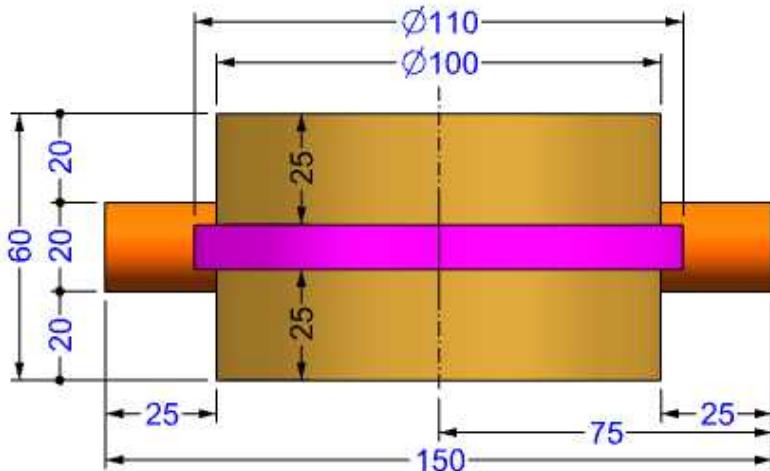
VIEW A-A



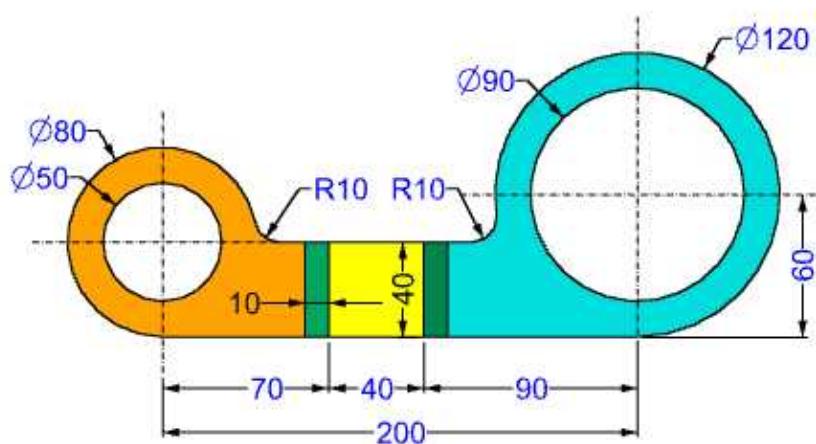
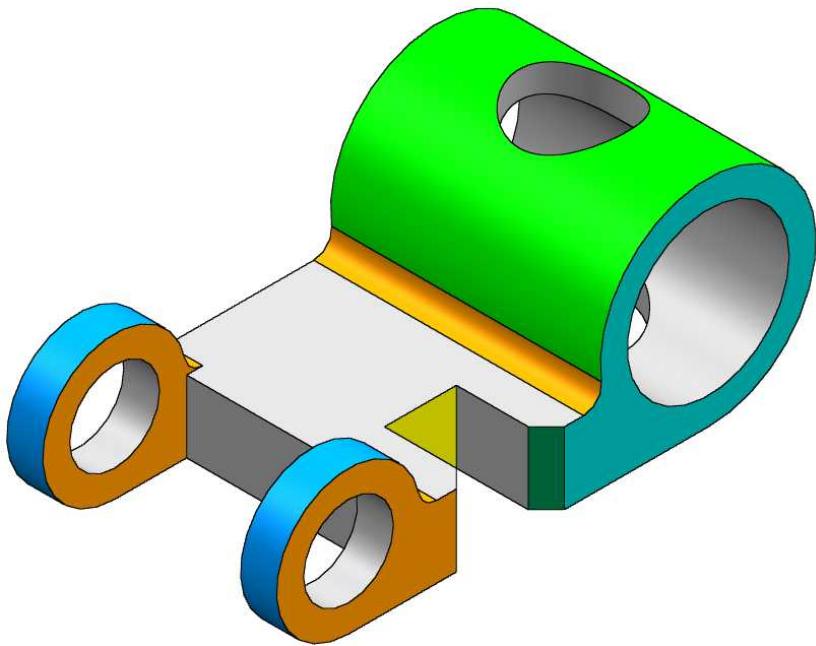
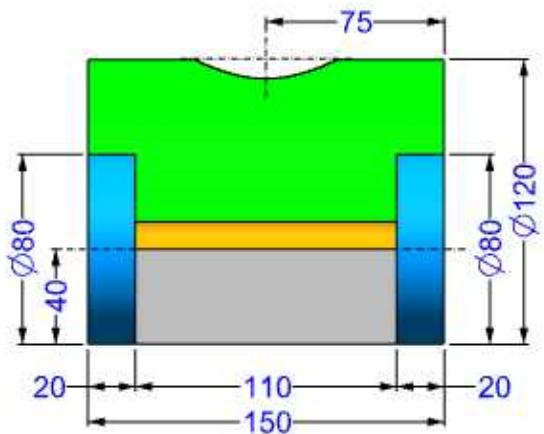
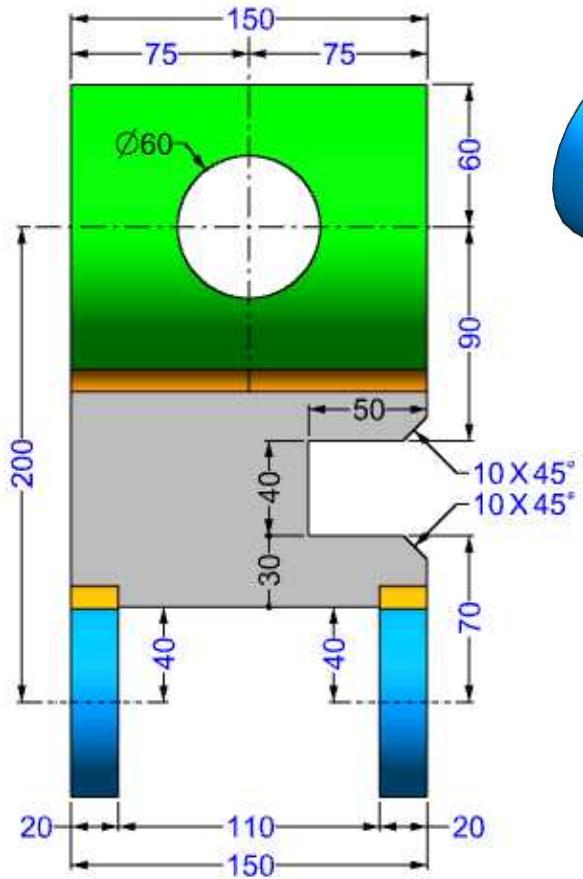
EXERCISE-179



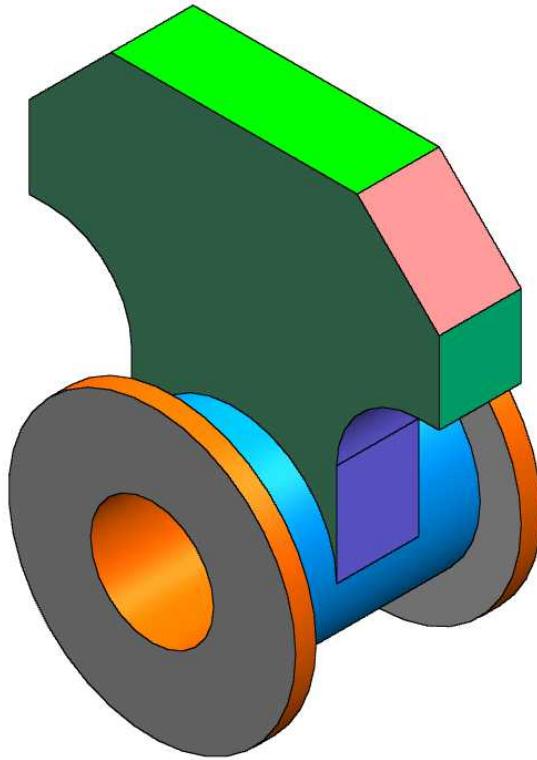
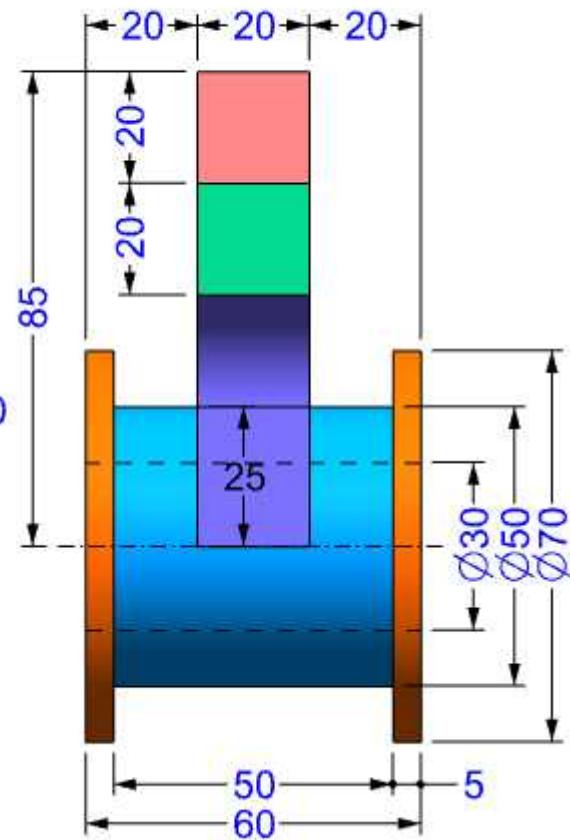
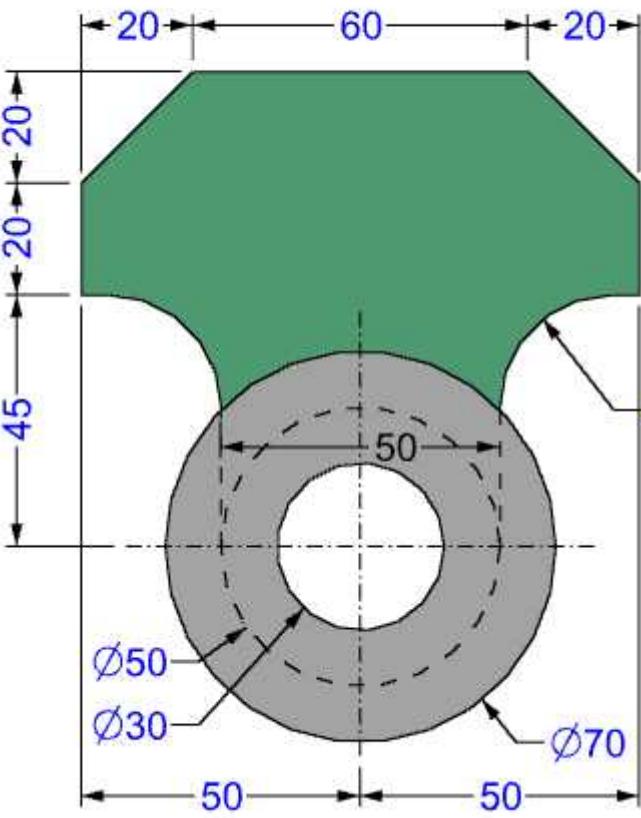
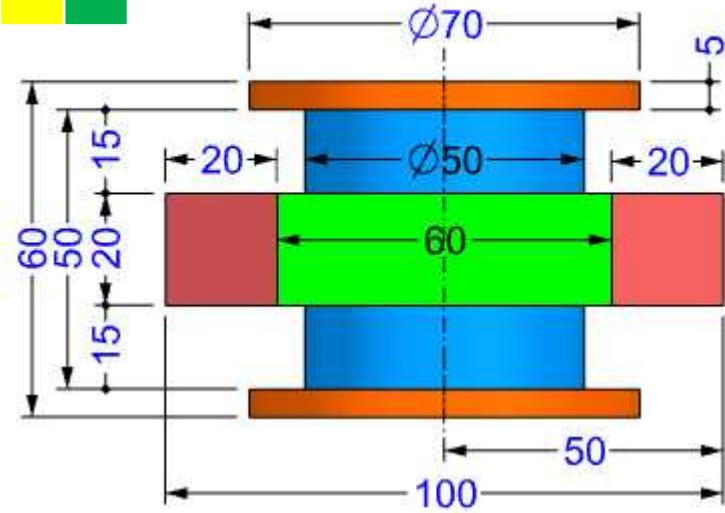
EXERCISE-180



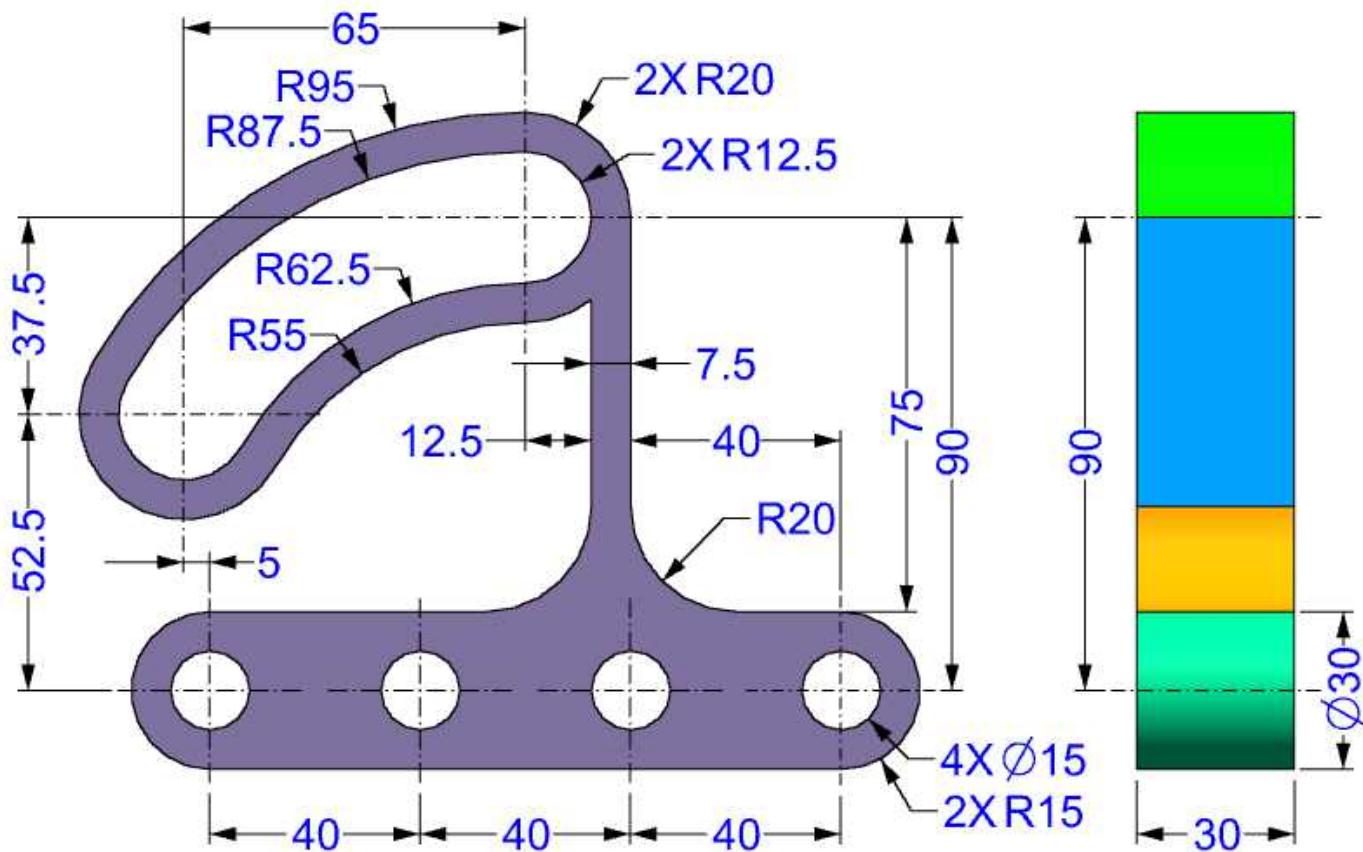
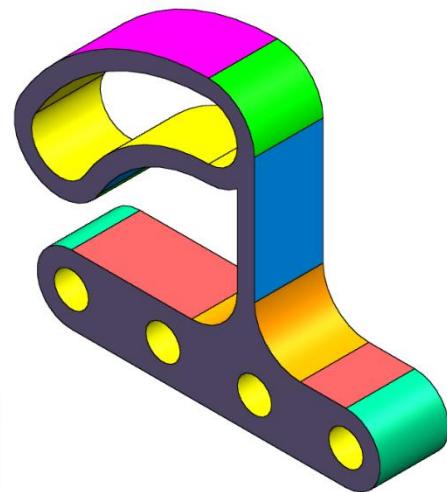
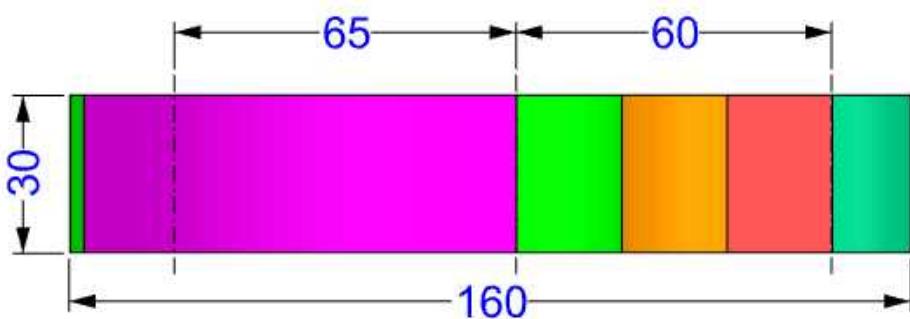
EXERCISE-181



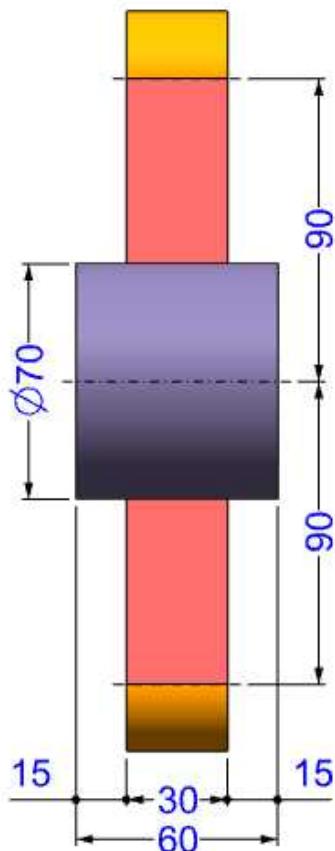
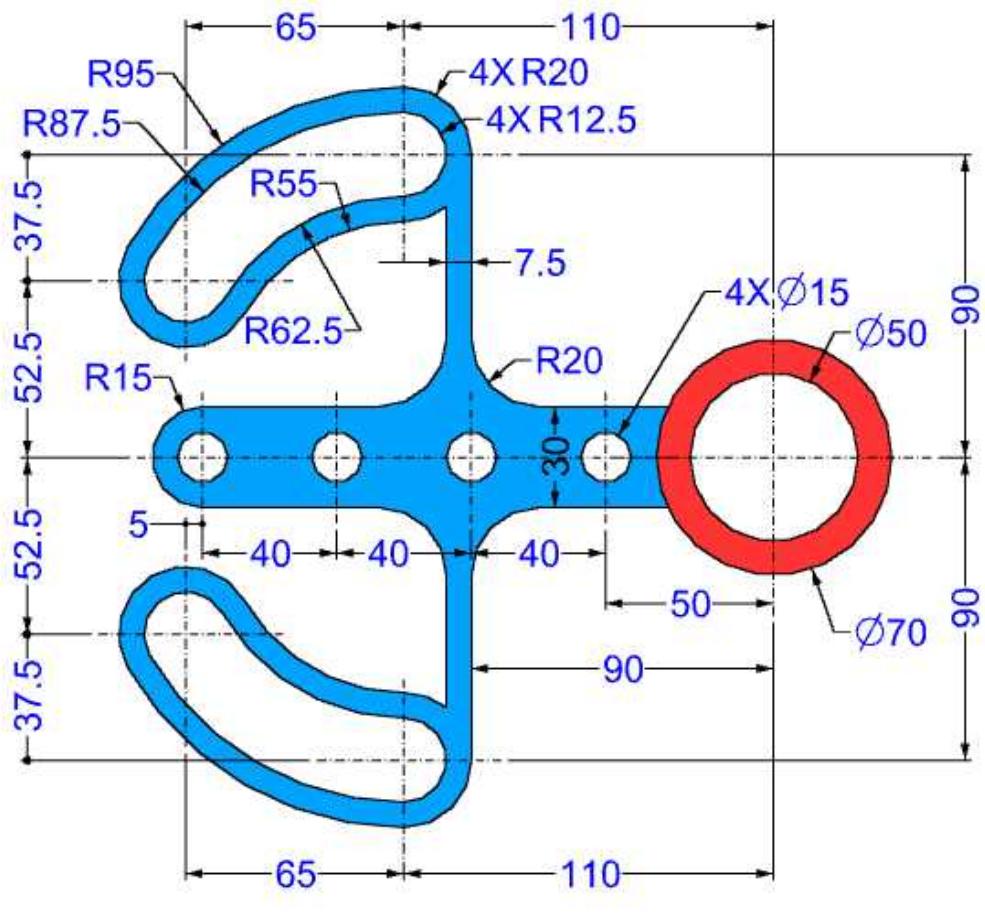
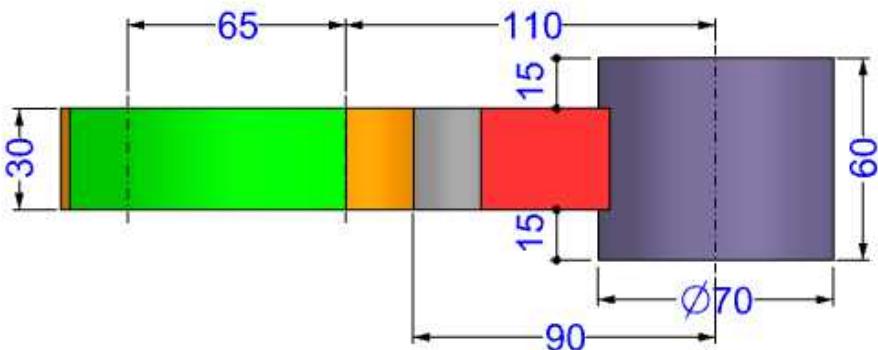
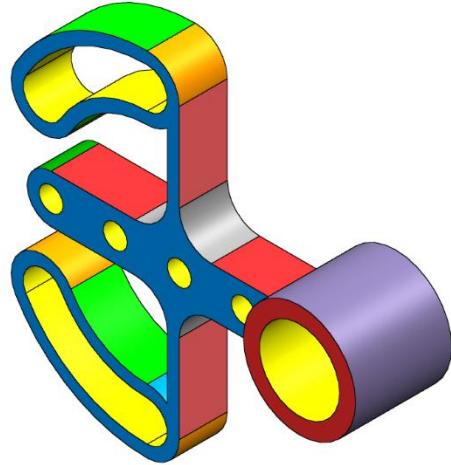
EXERCISE-182



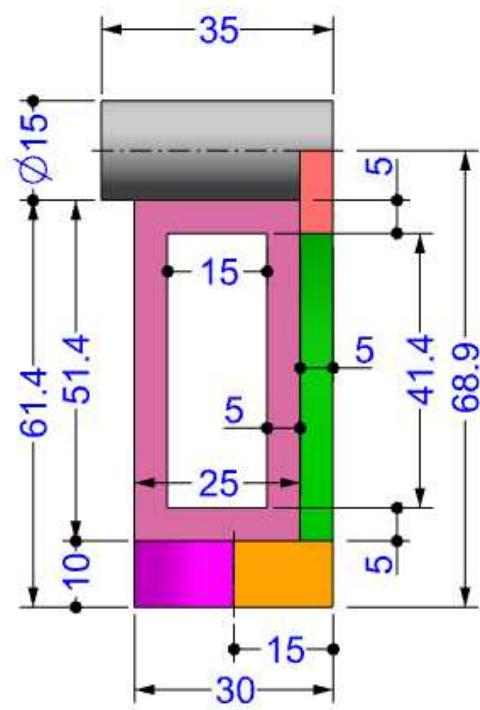
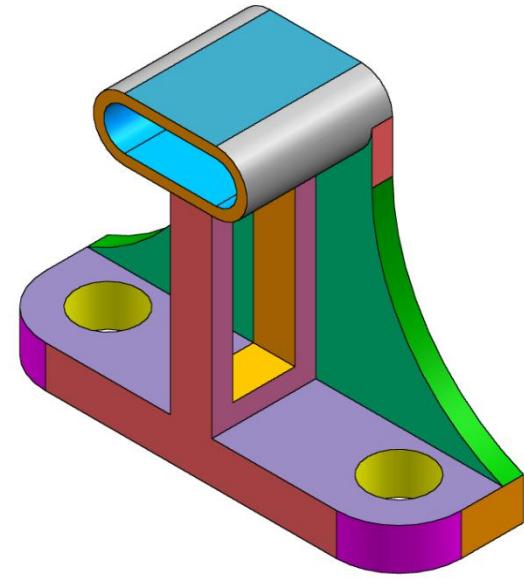
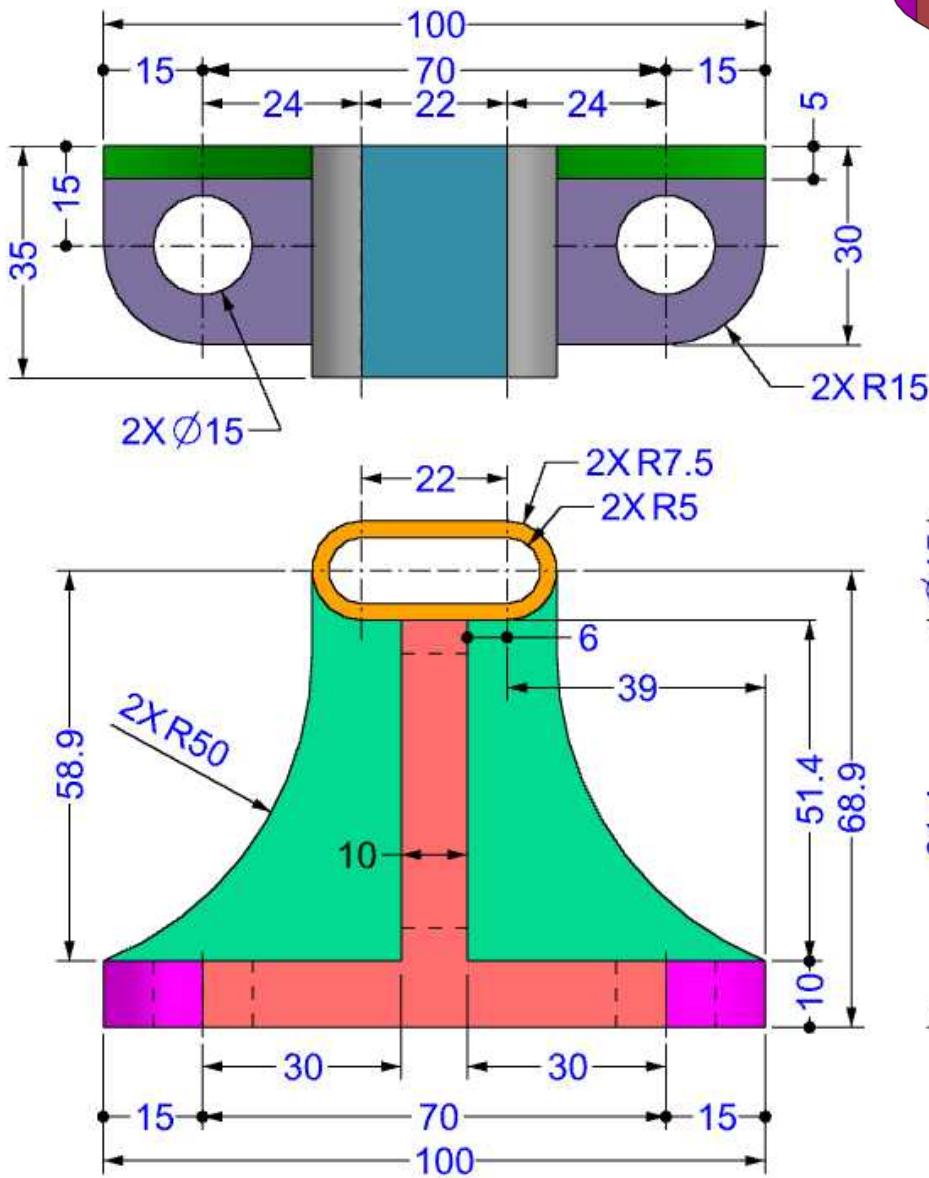
EXERCISE-183



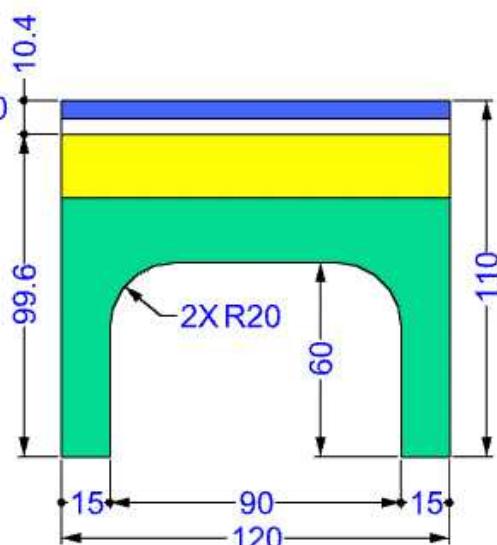
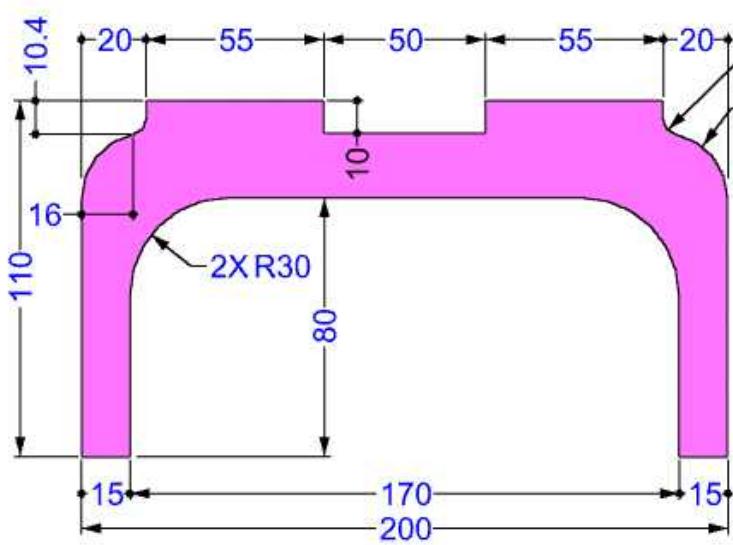
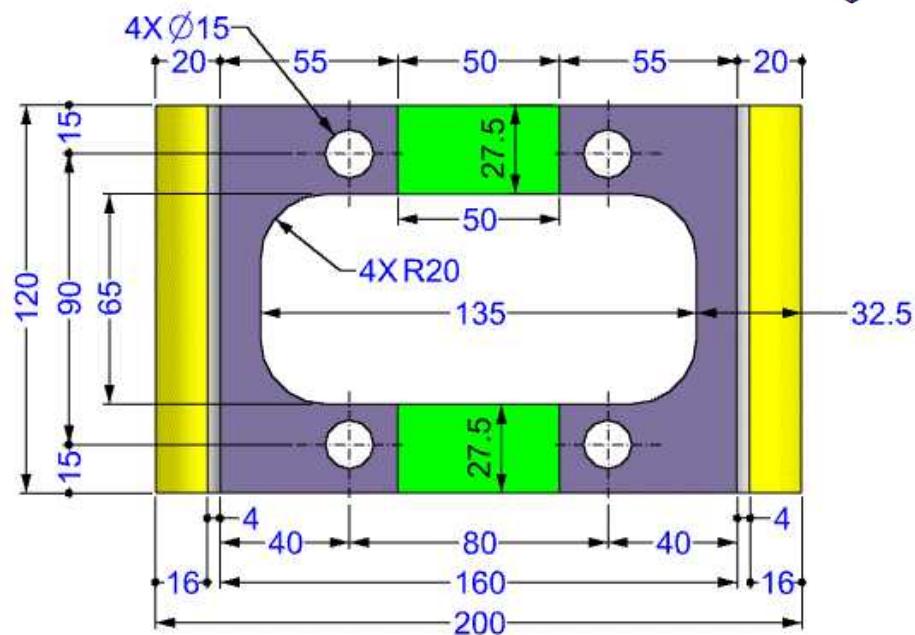
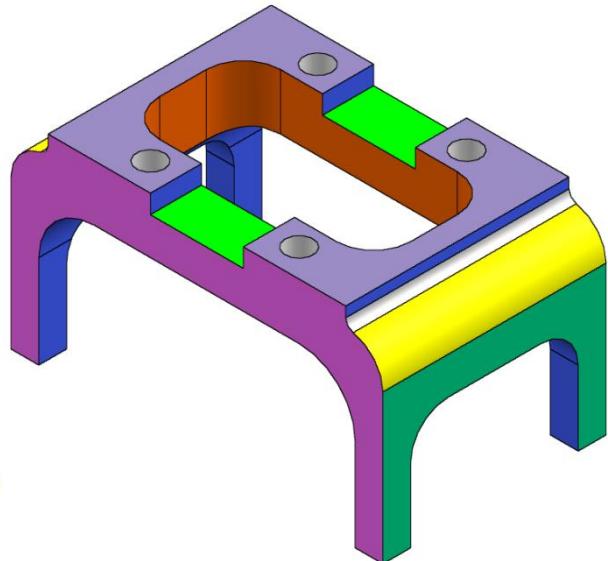
EXERCISE-184



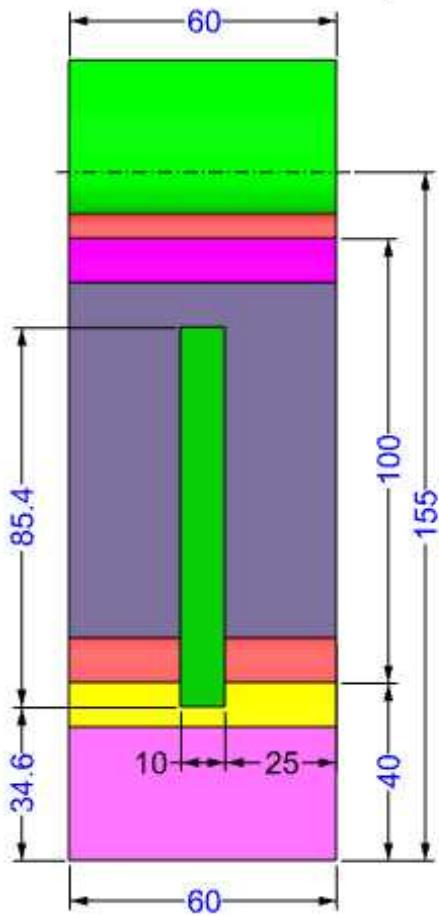
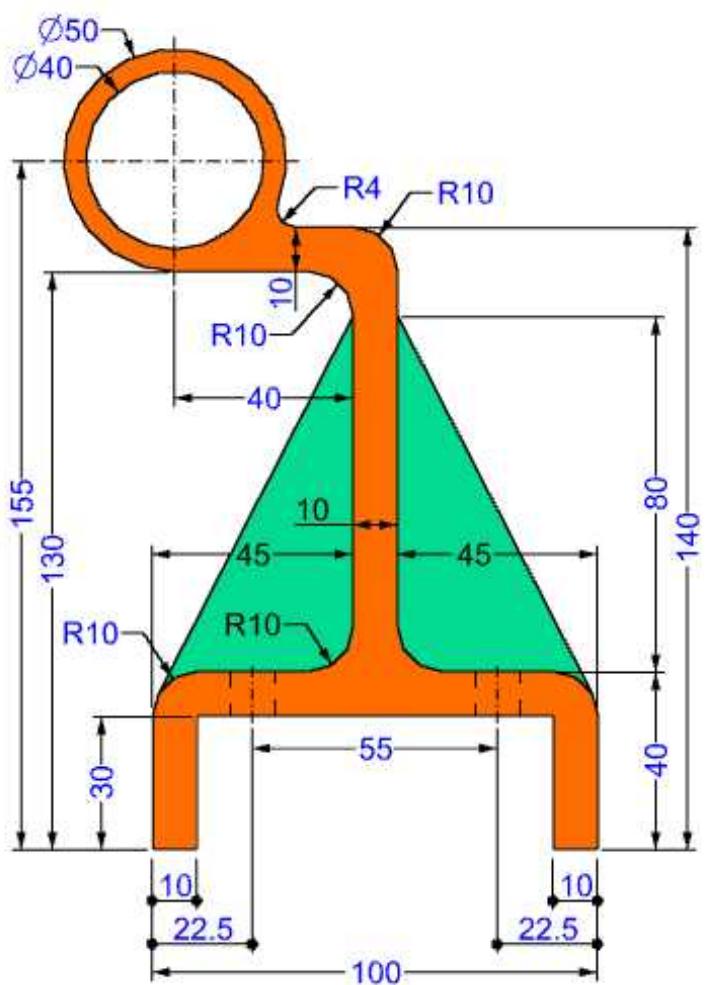
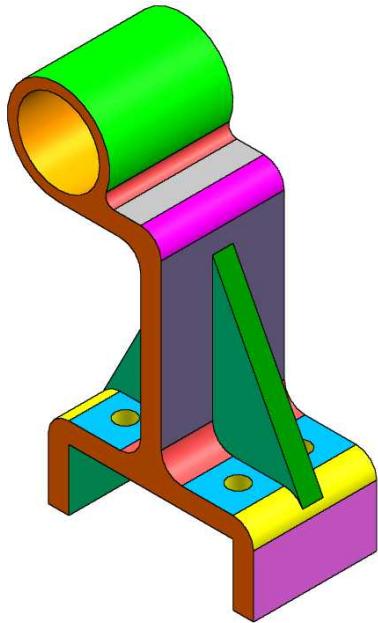
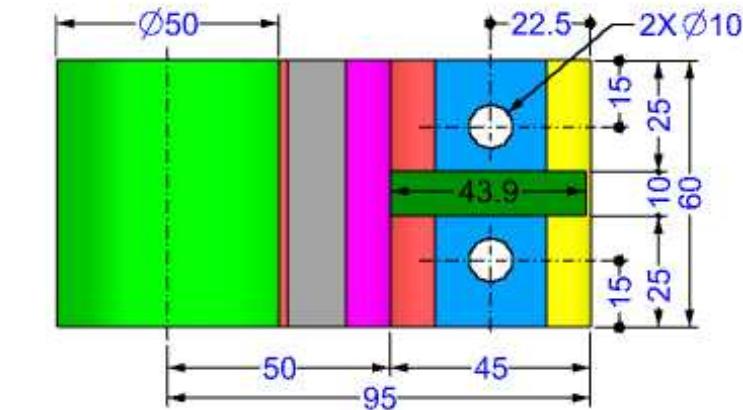
EXERCISE-185



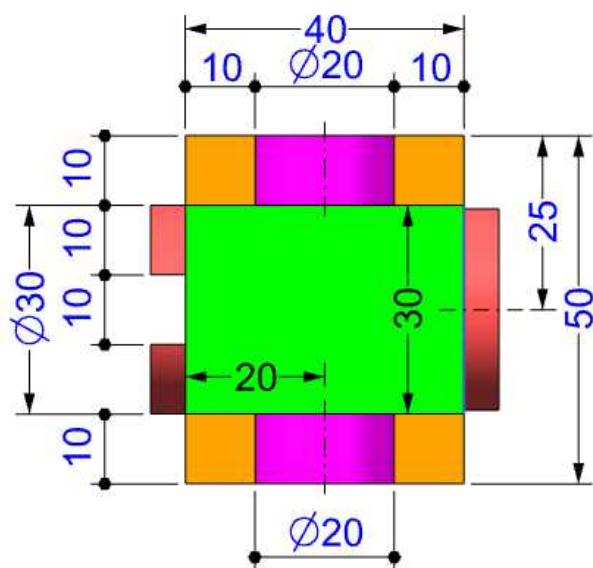
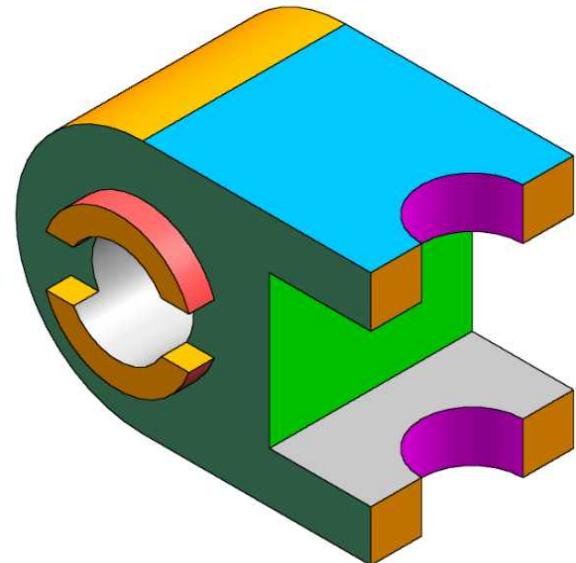
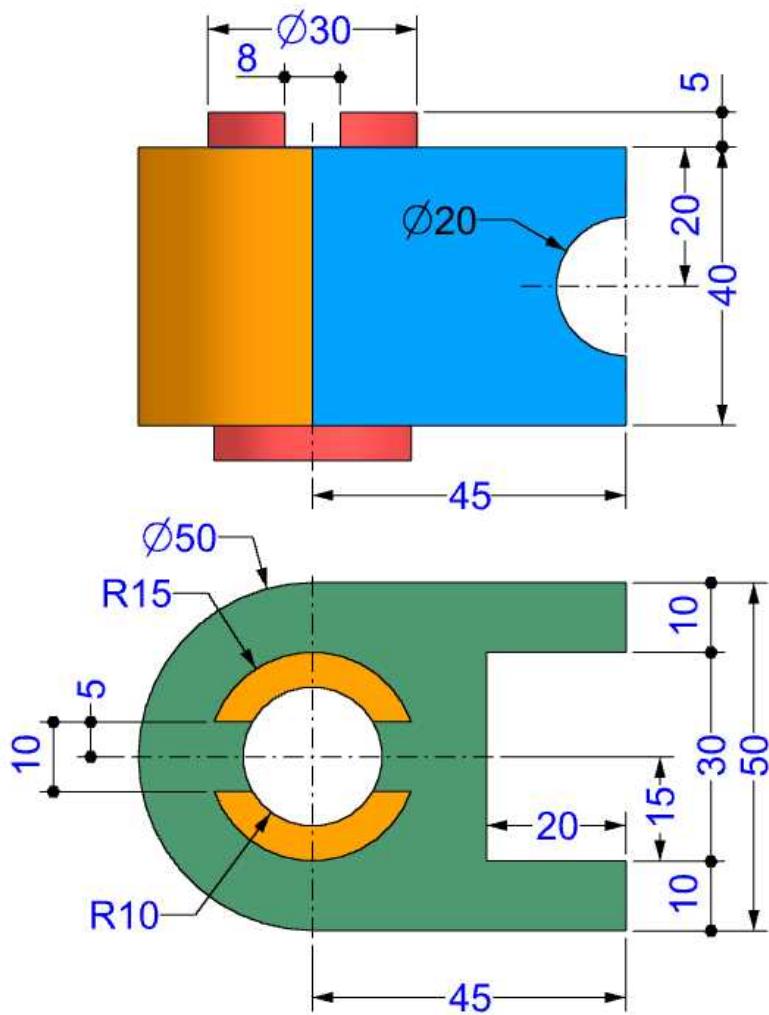
EXERCISE-186



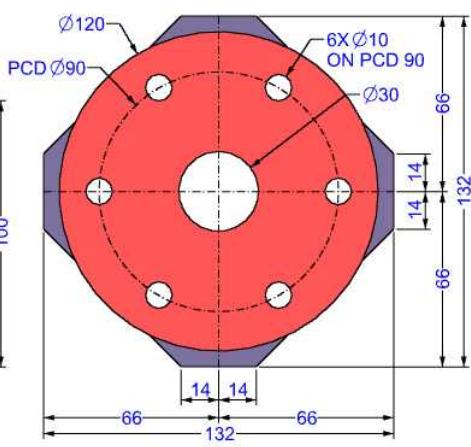
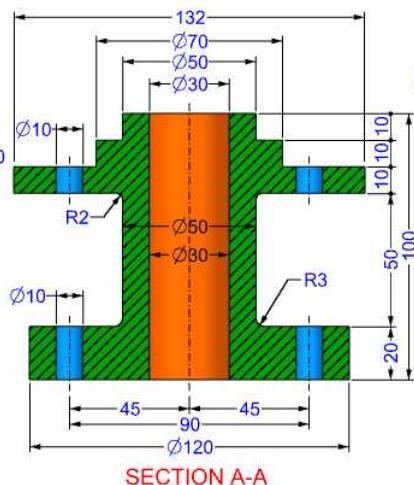
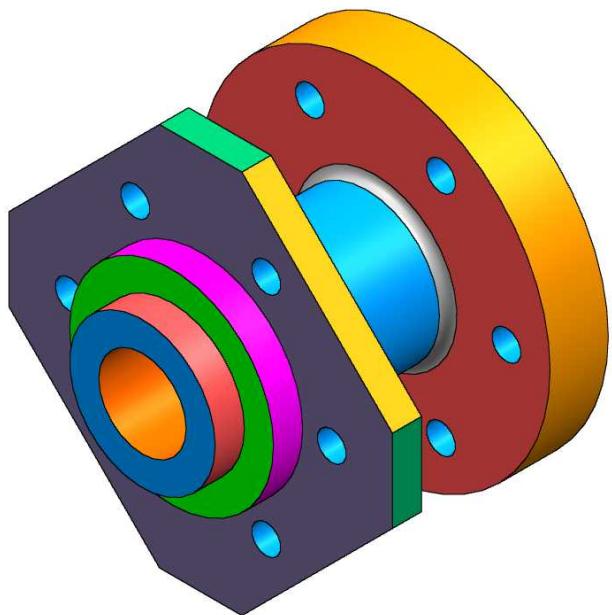
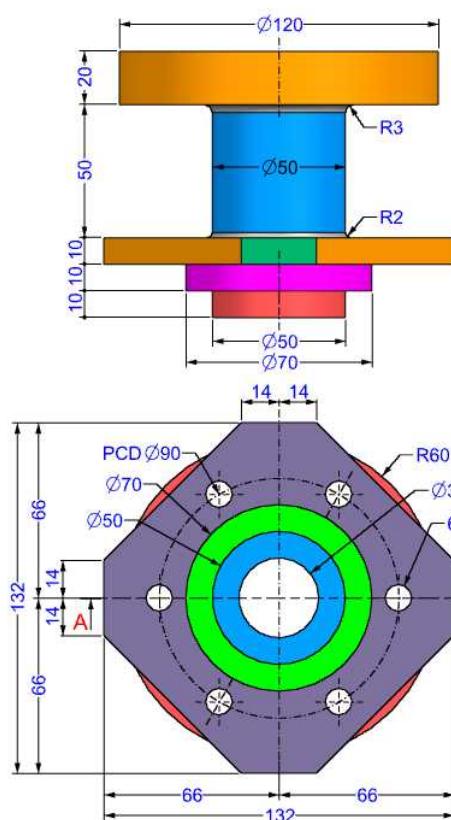
EXERCISE-187



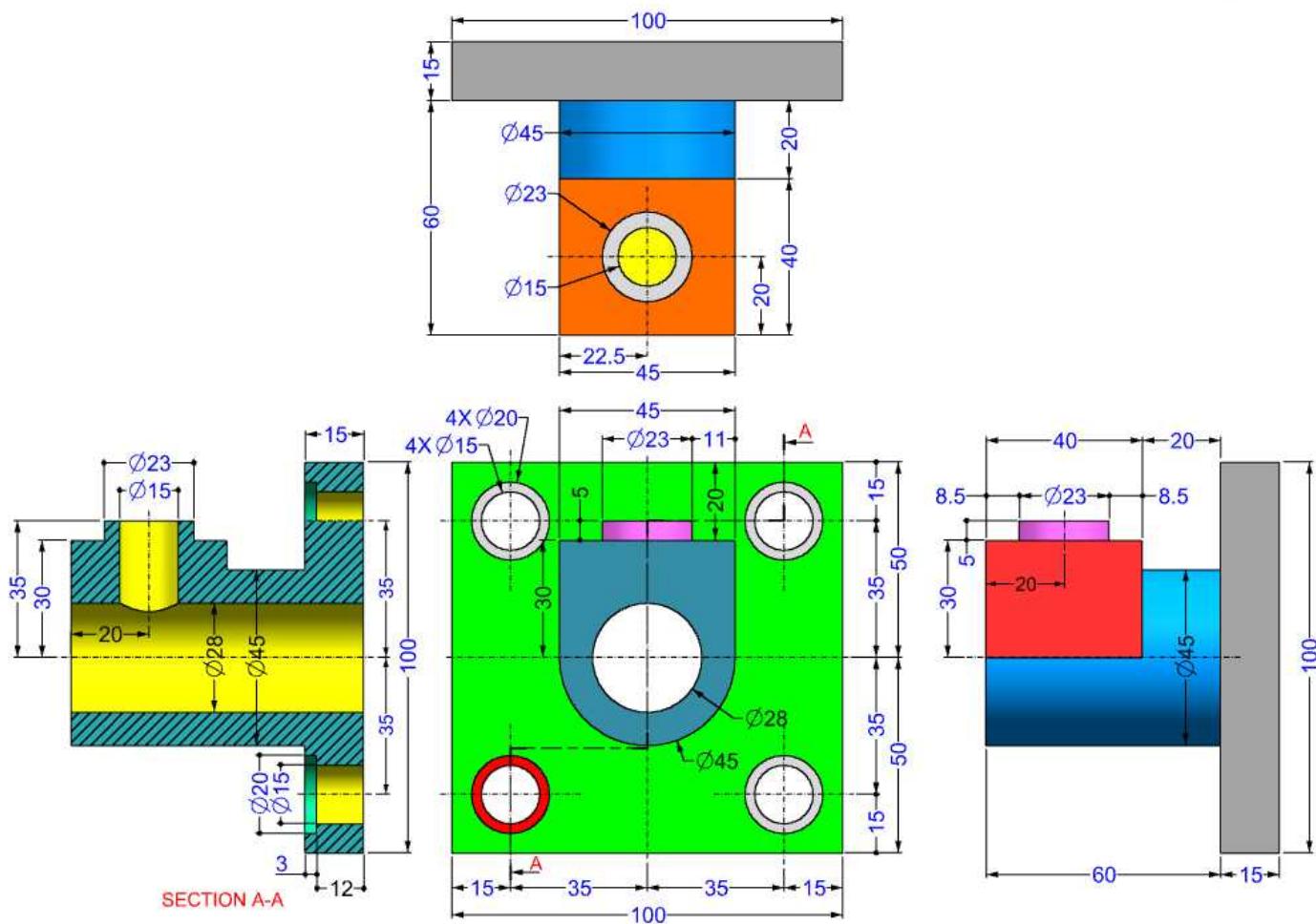
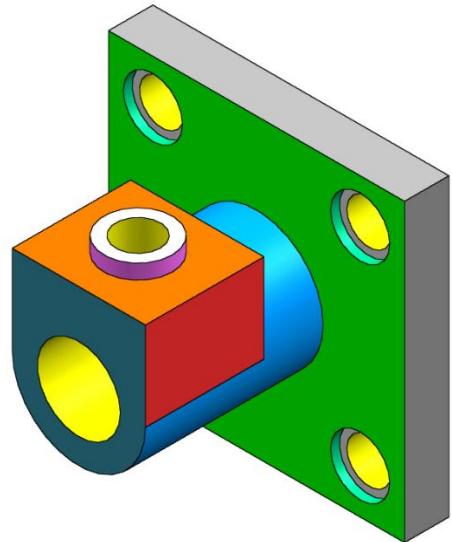
EXERCISE-188



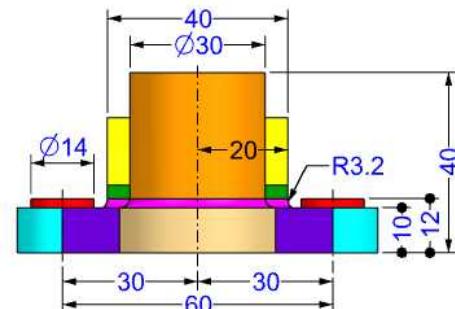
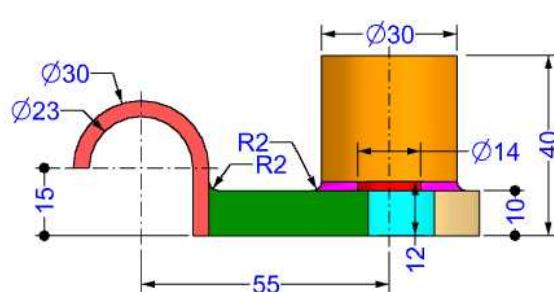
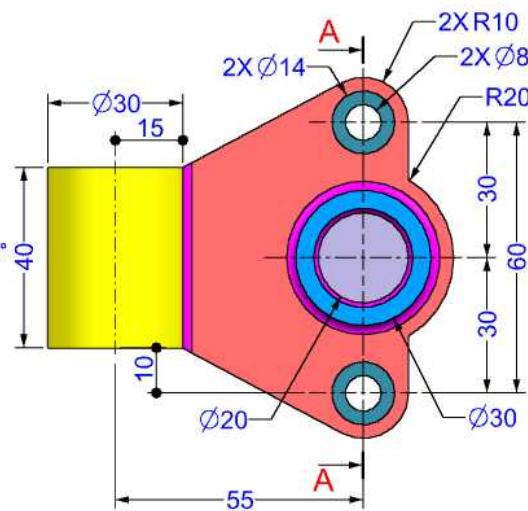
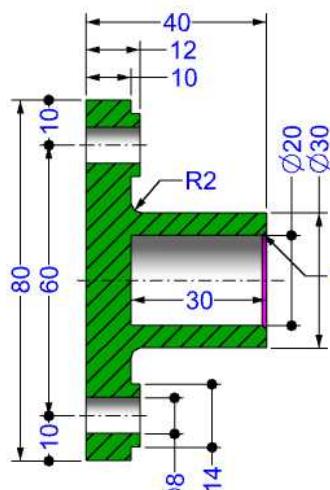
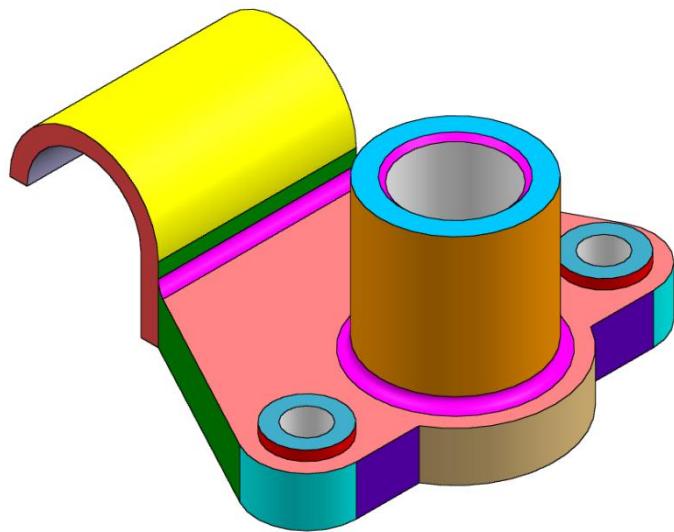
EXERCISE-189



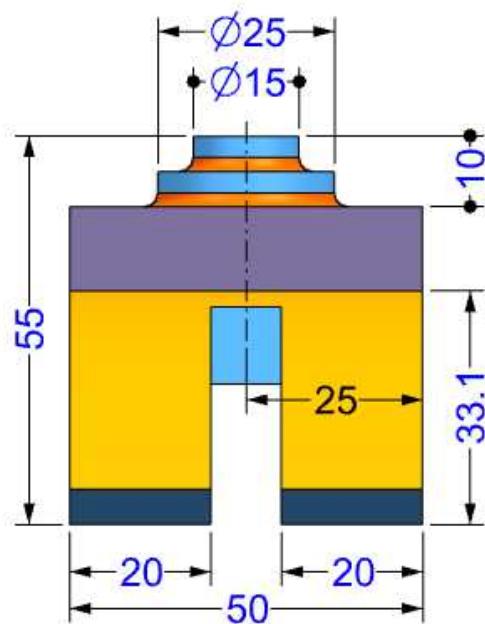
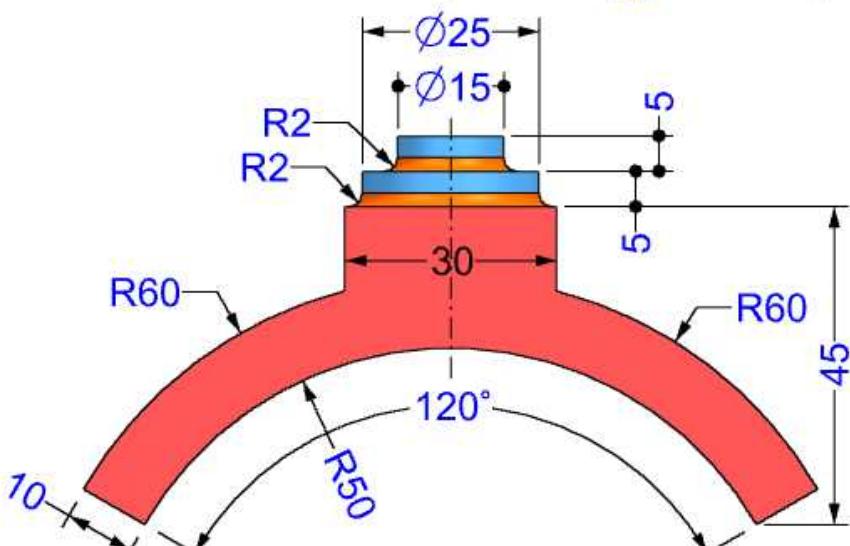
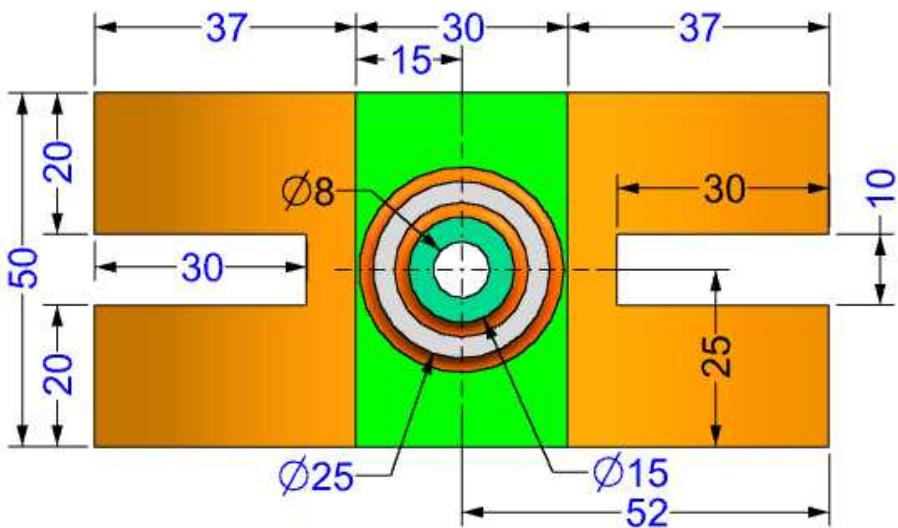
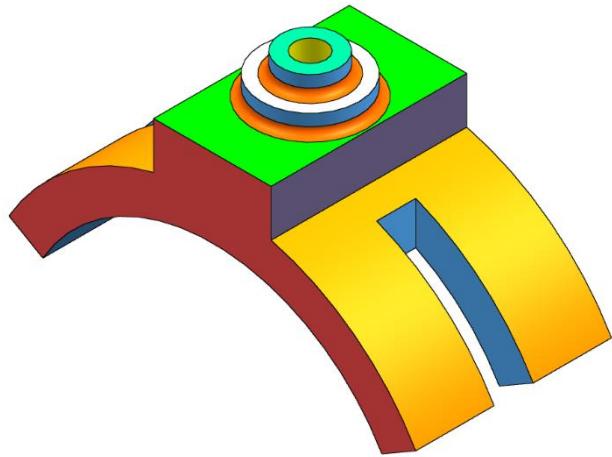
EXERCISE-190



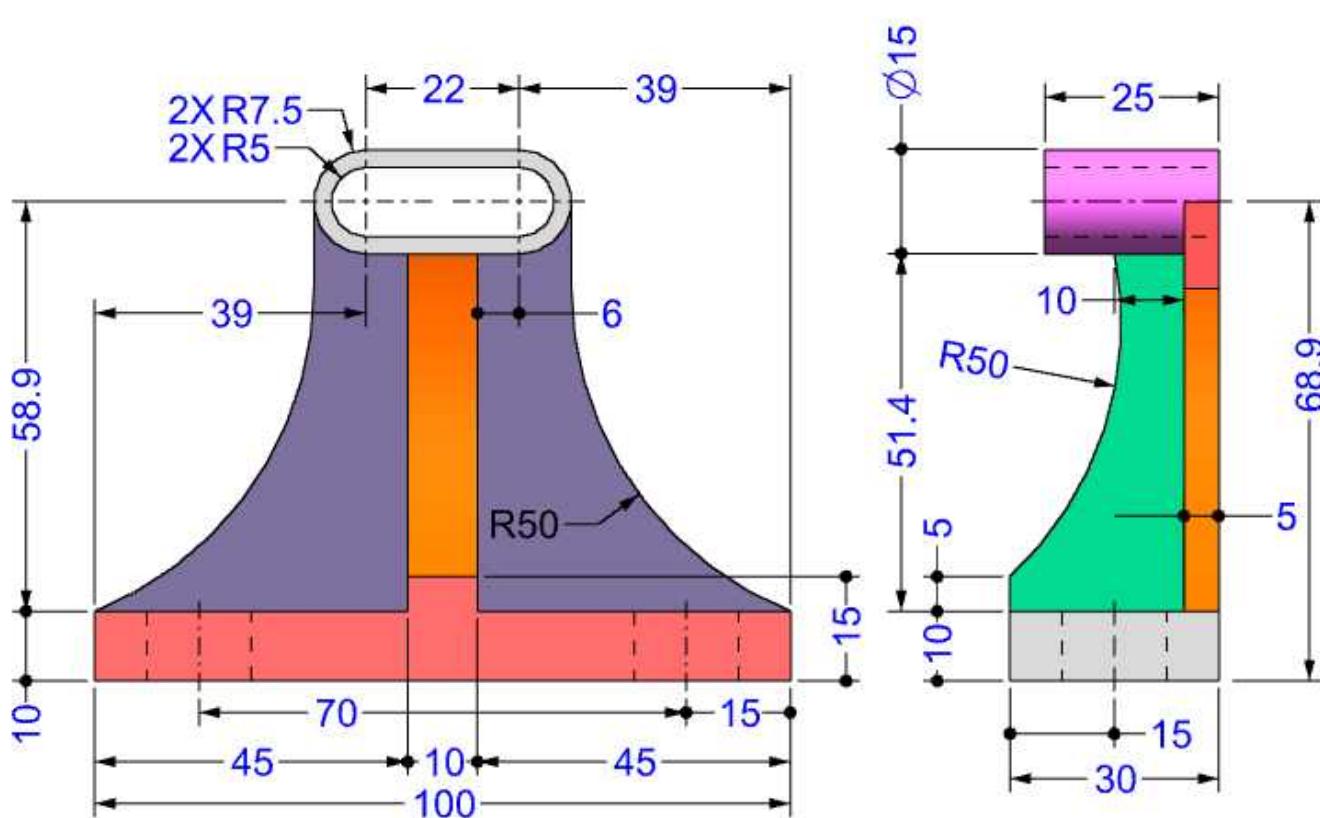
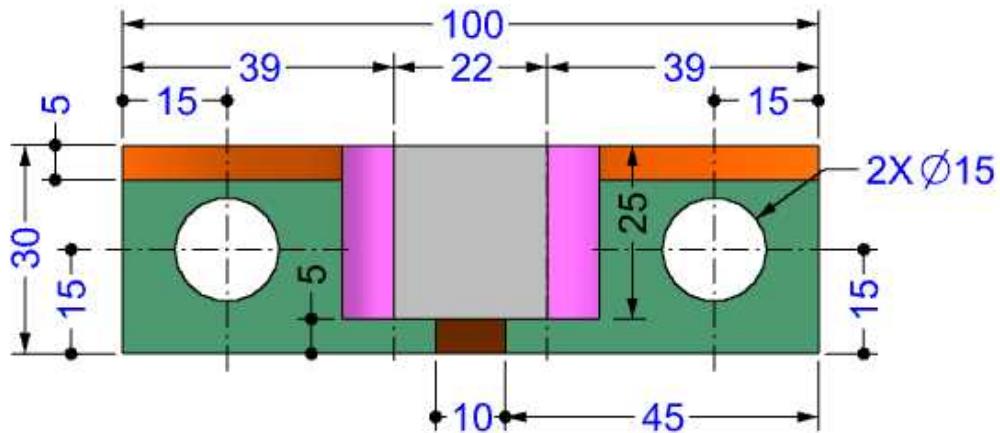
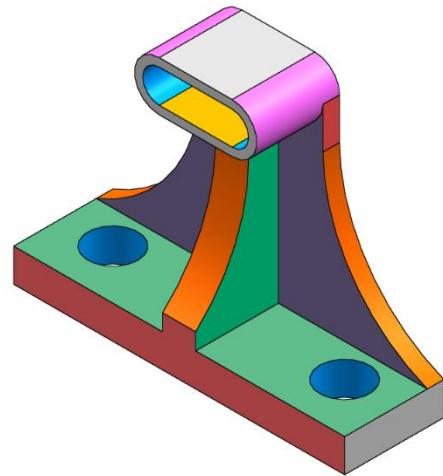
EXERCISE-191



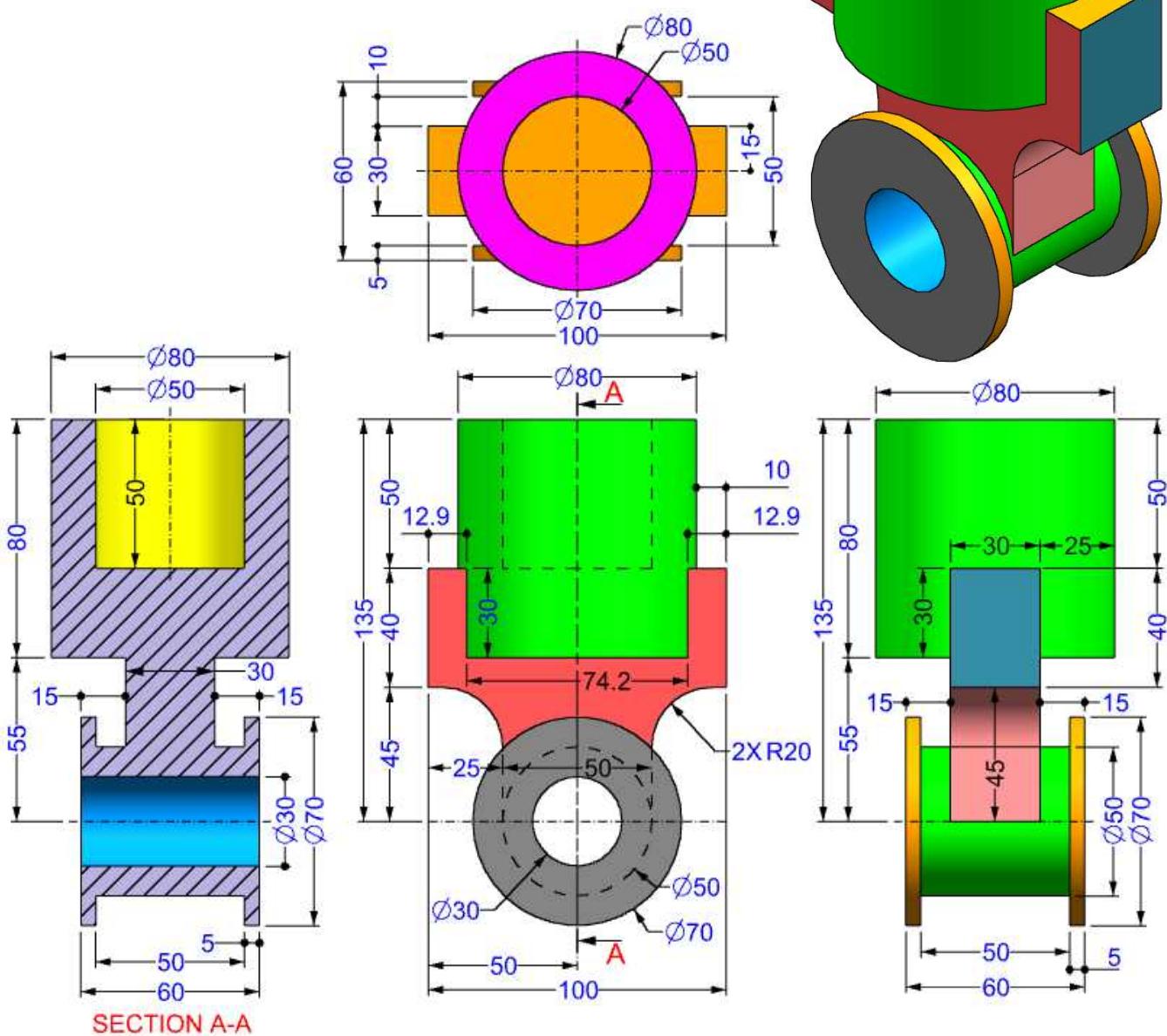
EXERCISE-192



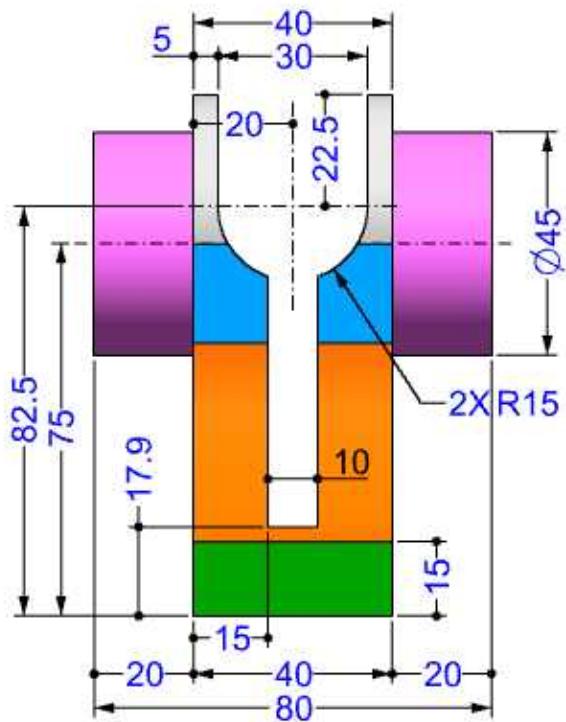
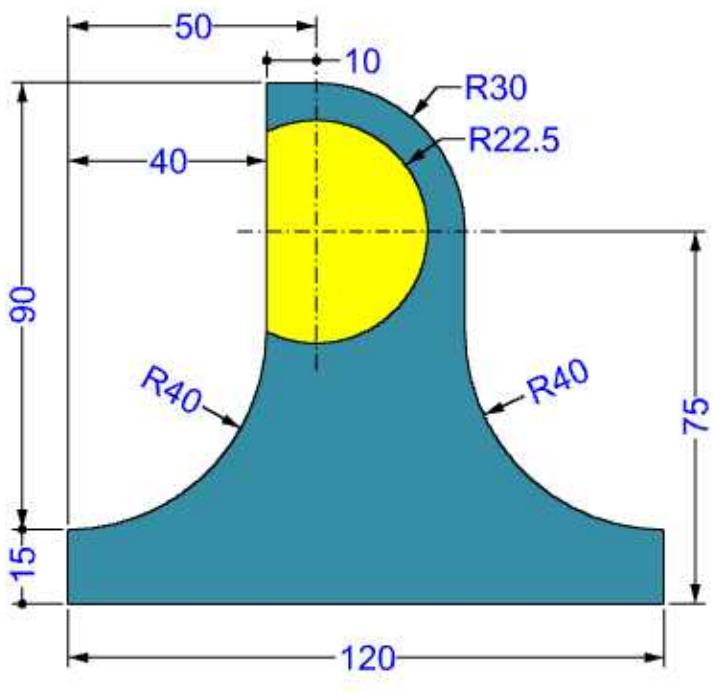
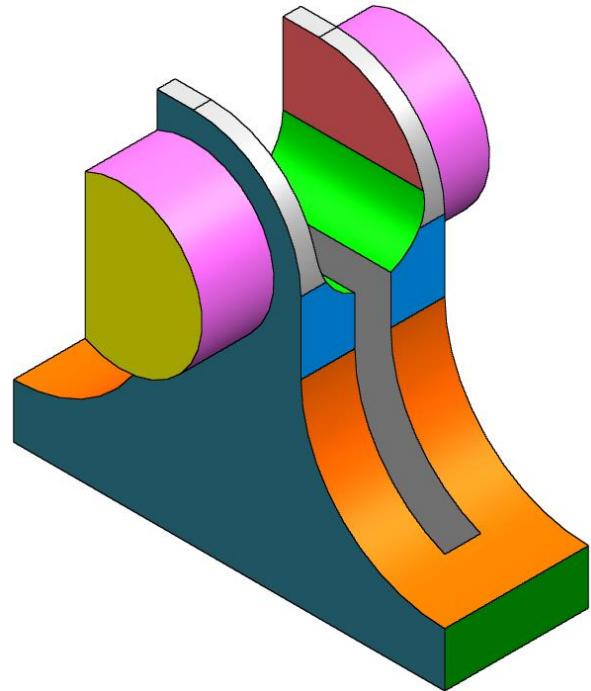
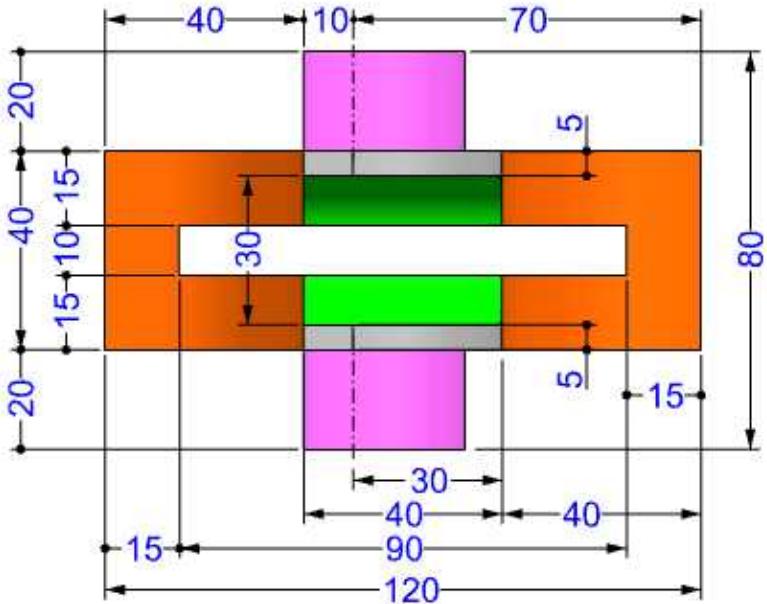
EXERCISE-193



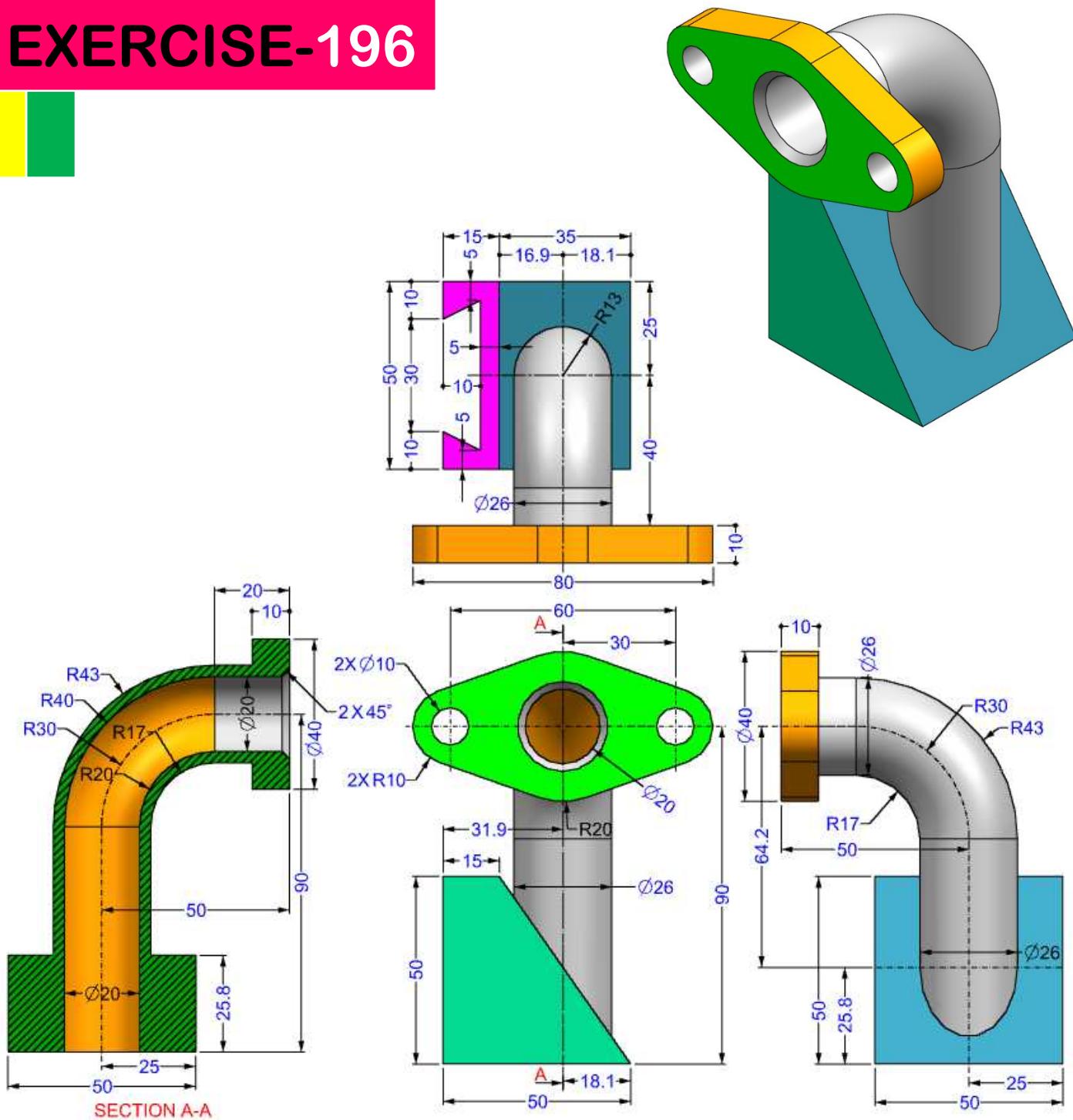
EXERCISE-194



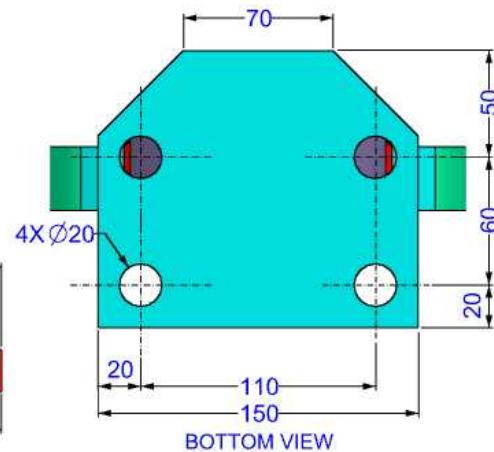
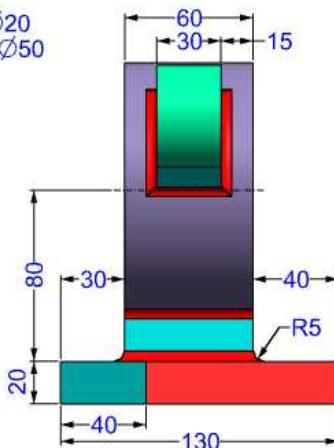
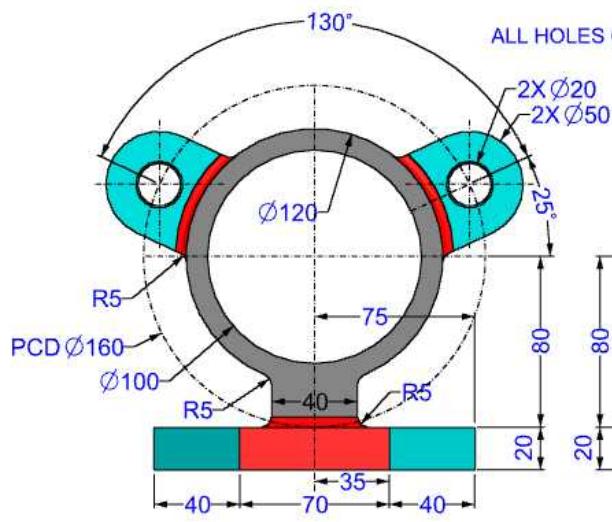
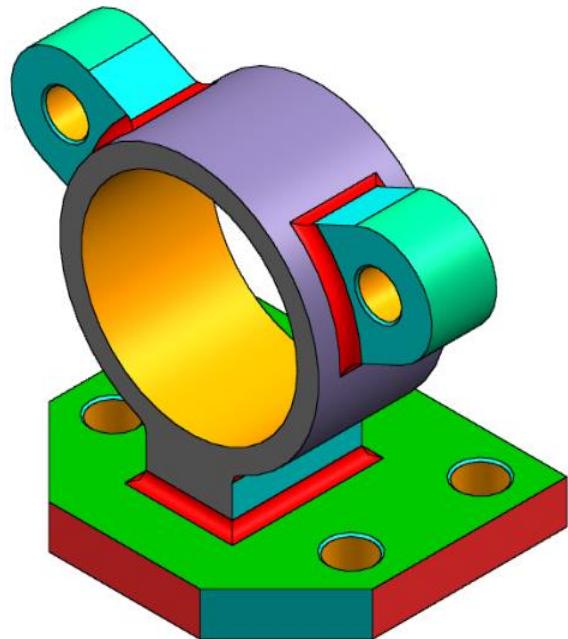
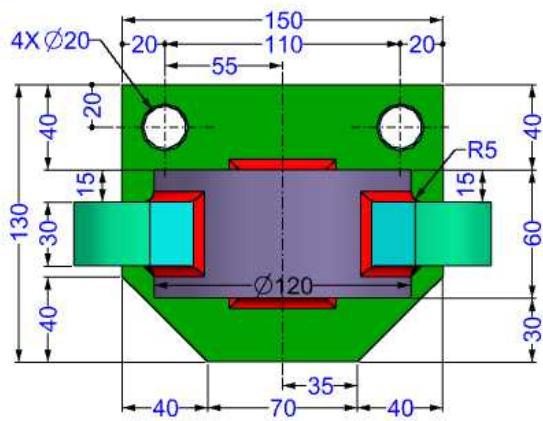
EXERCISE-195



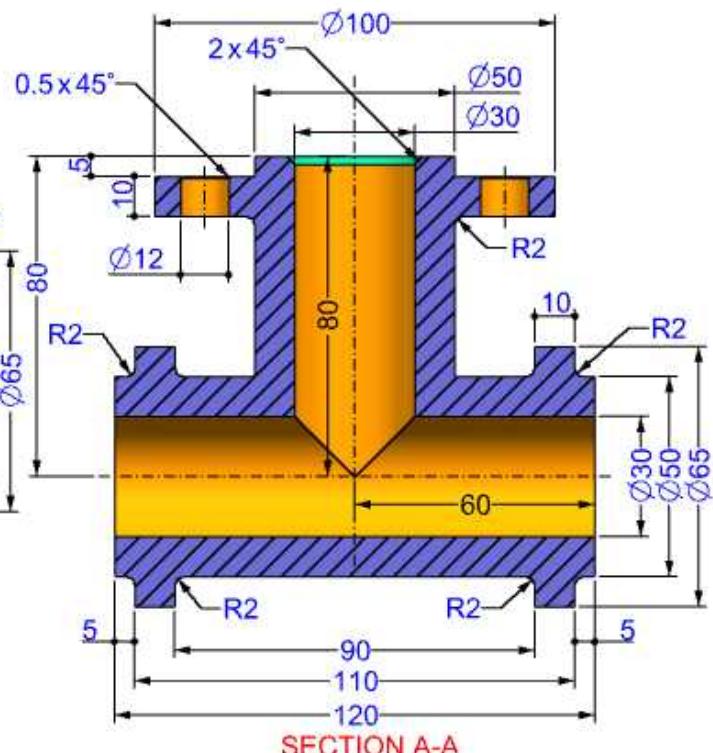
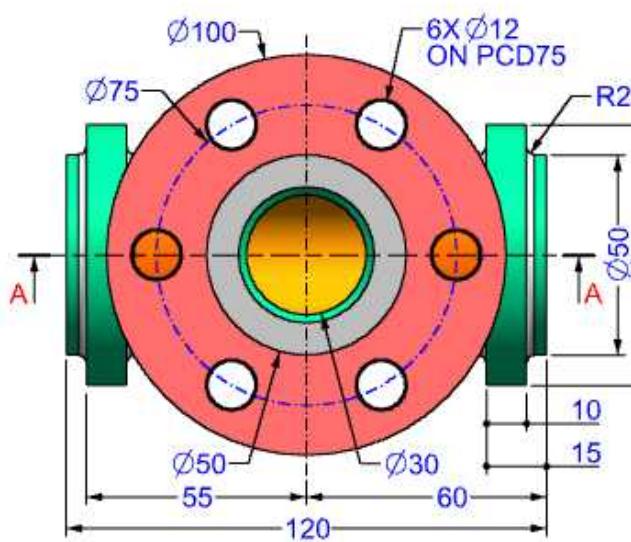
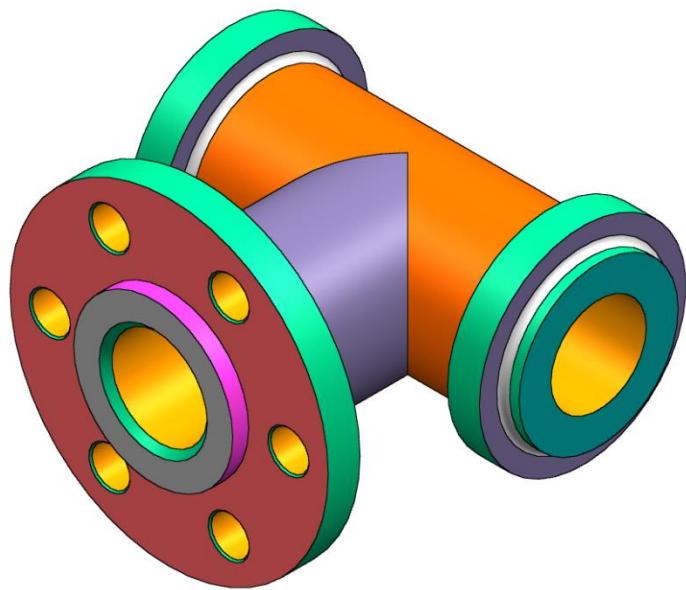
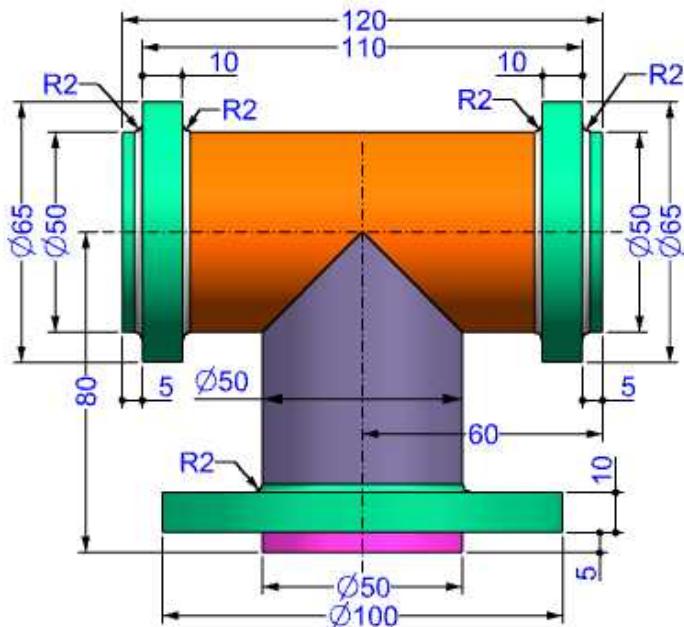
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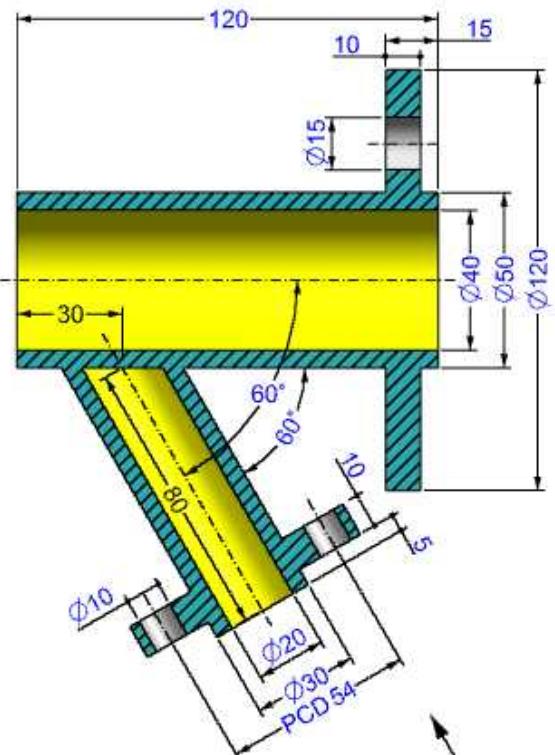
EXERCISE-197



EXERCISE-198

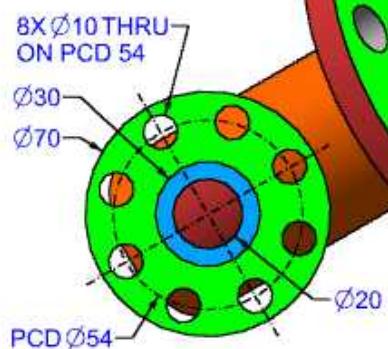
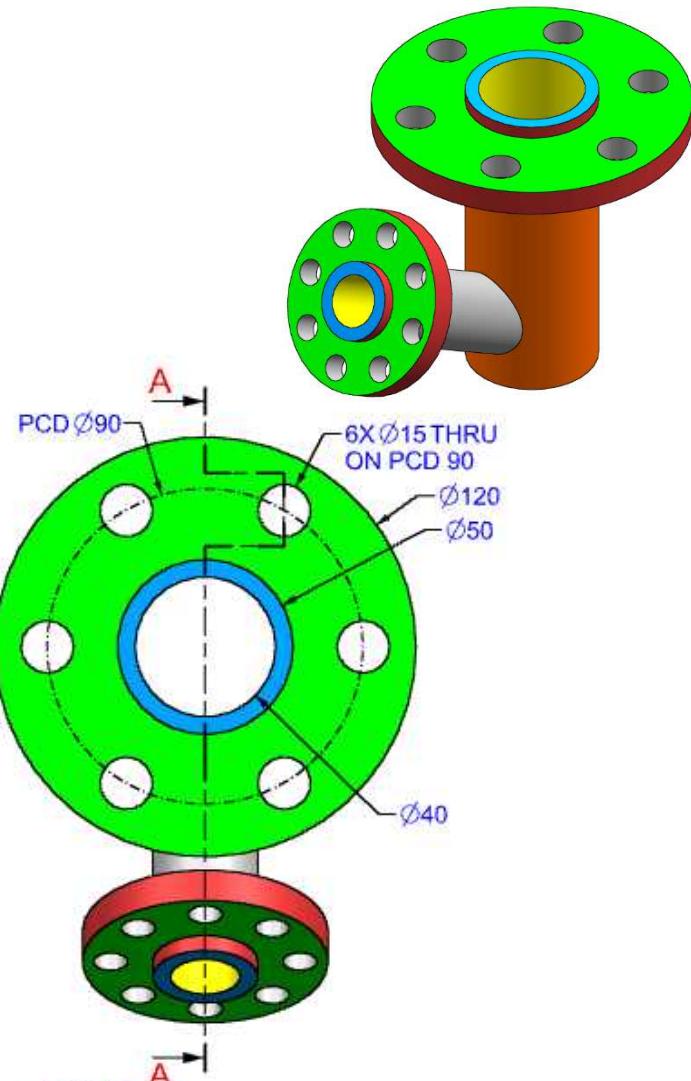


EXERCISE-199



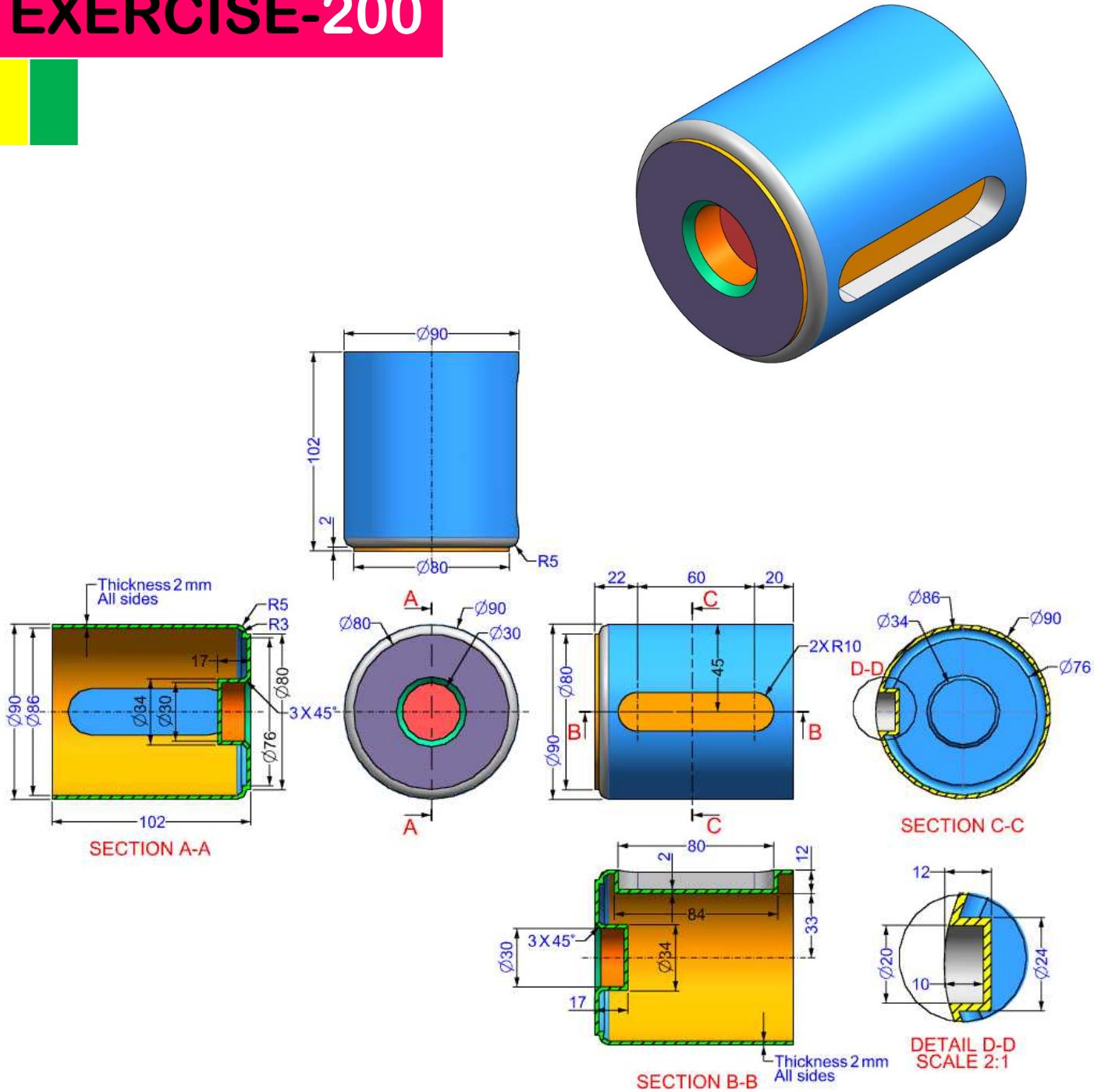
SECTION A-A

B-B



VIEW B-B

EXERCISE-200



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