



# Mec E 468 Numerical Simulation in Mechanical Engineering Design

## AUTOMARK REPORT

**Semester: Win 2022**

**Instructor: Prof. David S. Nobes**

**Student Name:**

**Assignment: Assignment No 1**

**PROCESSING DATE: August 16, 2022**

*AUTOMark Assessment Grade: **271 out of 291***

*AUTOMark Recommended Grade: **93 out of 100***

**NOTE: This grade is preliminary only and needs to be confirmed.**

The following pages include each of the drawings in the following order:

- Your submission
- Your submission marked by AutoMARK
- The solution

**Other important points:**

- Examples are given on eClass of how to interpret the mark-up symbols used by AUTOMark.
- If you have any questions, discuss with you TA in the next lab time.

DRAWING CREATION DATE: 23-May-2022 00:27:07

DRAWING LAST SAVE DATE: 23-May-2022 11:40:02

MODEL CREATION DATE: 22-May-2022 23:24:54

MODEL LAST SAVE DATE: 23-May-2022 11:02:07

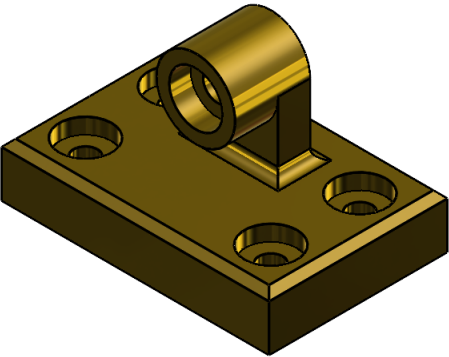
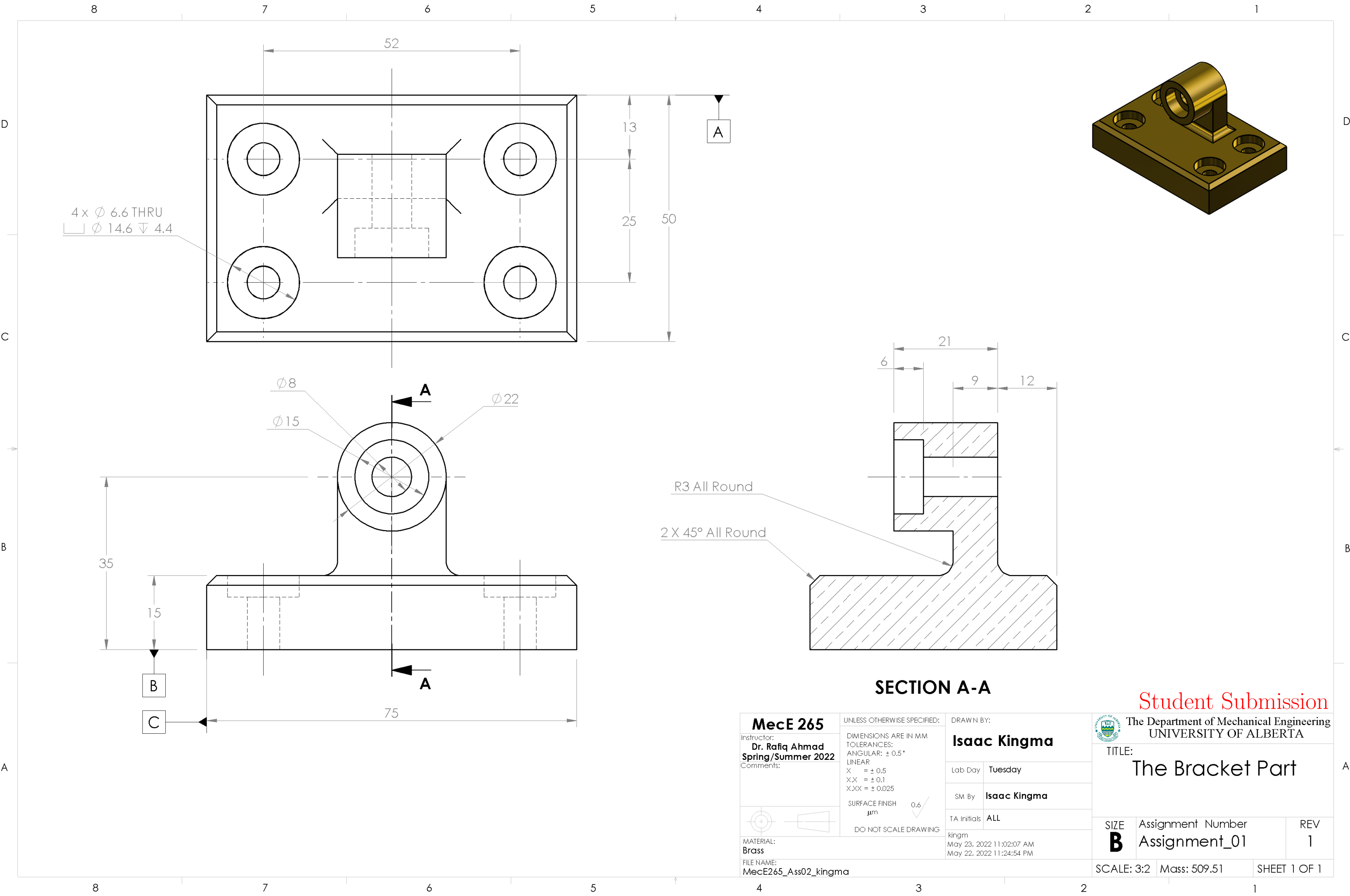
AutoMARK details:

- Sheetnames should contain only alphabetical characters
- Weights of feature properties are set by the marker
- AutoMARK v 4.0 software written and designed by Owen Stadlwieser




AutoMARK Criterion (The weights of these criterion are decided by the marker):

- DRAWING: SheetOrder, ExtraSheets
- SHEET: SheetPaperSize, SheetScale, SheetTemplate, SheetExtraBOMS, SheetExtraViews, SheetViewTypes, SheetIntersectingBallons
- BILLOFMATERIALS: BOMTableType, BOMNumberColumns, BOMNumberRows, BOM-Position, BOMTableHeight, BOMTableWidth, BOMFontType, BOMFontSize
- VIEW: ViewScale, ViewDisplayStyle, ViewExtraDimension, ViewPosition, ViewExtra-CenterMarks, ViewMass, ViewMaterial, ViewExtraDatums, ViewWrongProjection, ViewEx-traCenterlines
- DIMENSION: DimensionDangling, DimensionWrongView, DimensionPosition, Dimen-sionArrowSide, DimensionValue, DimensionBadText
- CENTERLINE: CenterlineDangling, CenterlinePosition
- CENTERMARK: CentermarkDangling, CentermarkPosition, CentermarkShowlines, Cen-termarkAngle, CentermarkConnectionLines, CentermarkExtensions, CentermarkGap, CentermarkSize, CentermarkGroupedCorrectly
- DATUM: DatumDangling, DatumWrongView, DatumPosition, DatumLabel, DatumDis-playStyle, DatumFilledTriangle
- Ballon: BallonDangling, BallonPosition

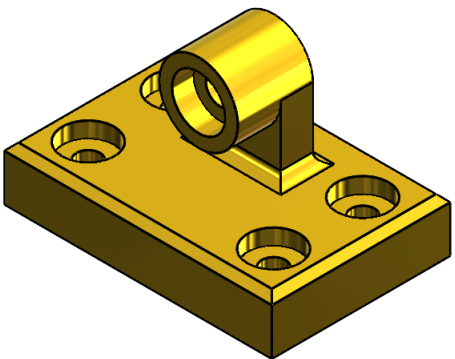
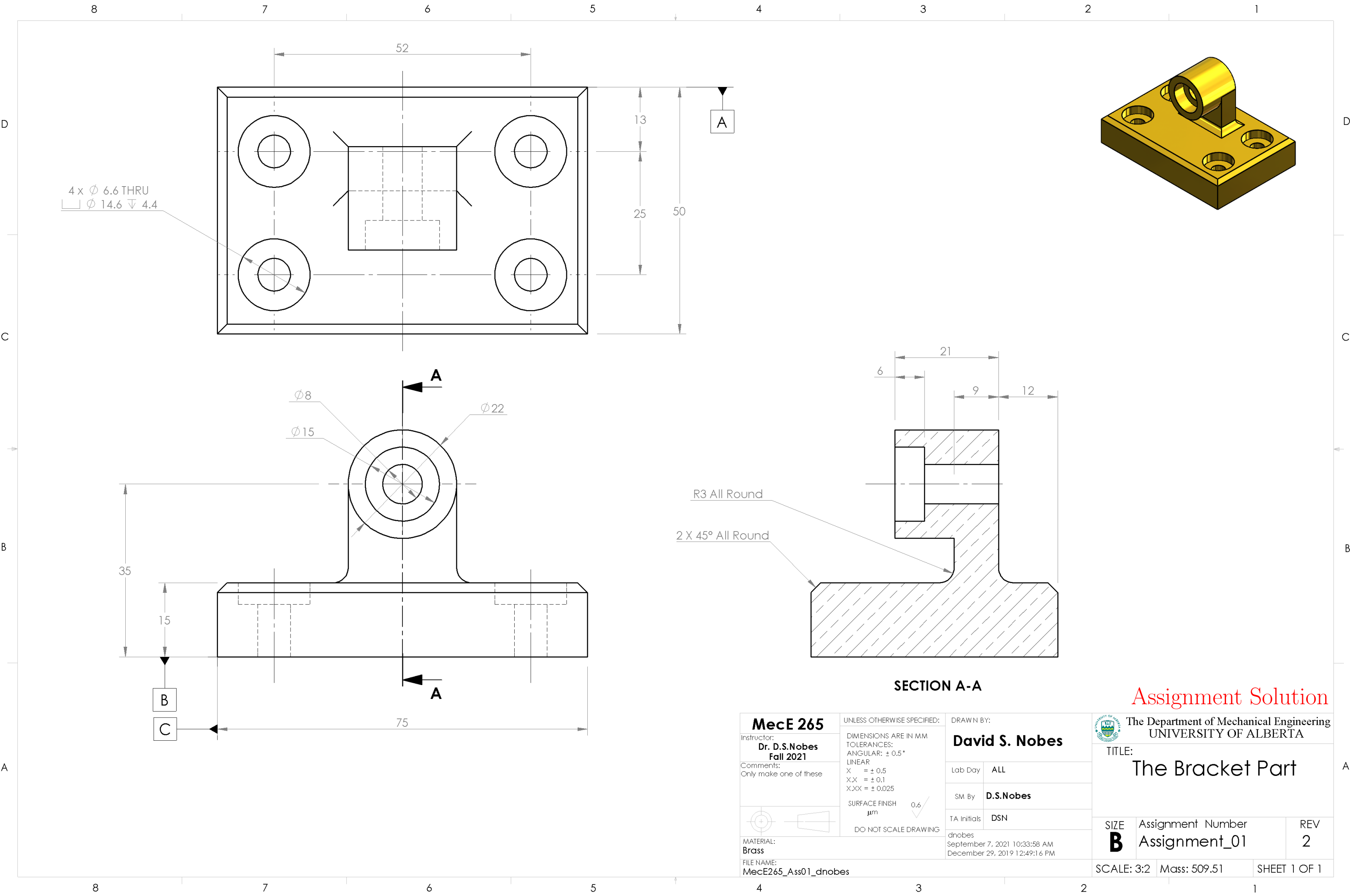
Symbol/Colour	Meaning
✓	No deductions on feature
Colour	Incorrect value
Colour	Miscellaneous error
Colour	Incorrect Position
Colour	Unrecognized feature
Colour	Missing feature
?	Feature not found on key





SECTION A-A

<div><div>MecE 265</div><div>Instructor: Dr. Rafiq Ahmad Spring/Summer 2022 Comments:</div><div></div><div>MATERIAL: Brass</div><div>FILE NAME: MecE265_Ass02_kingma</div></div> <td colspan="2"><div>UNLESS OTHERWISE SPECIFIED:</div><div>DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: ± 0.5° LINEAR X = ± 0.5 X.X = ± 0.1 X.XX = ± 0.025</div><div>SURFACE FINISH μm 0.6 ✓</div><div>DO NOT SCALE DRAWING</div></td> <td colspan="2"><div>DRAWN BY:</div><div>Isaac Kingma</div><div>Lab Day Tuesday</div><div>SM By Isaac Kingma</div><div>TA Initials ALL</div><div>kingm May 23, 2022 11:02:07 AM May 22, 2022 11:24:54 PM</div></td> <td colspan="3"><div>The Department of Mechanical Engineering UNIVERSITY OF ALBERTA</div><div>TITLE: The Bracket Part</div><div><div>SIZE B</div><div>Assignment Number Assignment_01</div></div><div>REV 1</div><div>SCALE: 3:2 Mass: 509.51</div><div>SHEET 1 OF 1</div></td>		<div>UNLESS OTHERWISE SPECIFIED:</div> <div>DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: ± 0.5° LINEAR X = ± 0.5 X.X = ± 0.1 X.XX = ± 0.025</div> <div>SURFACE FINISH μm 0.6 ✓</div> <div>DO NOT SCALE DRAWING</div>		<div>DRAWN BY:</div> <div>Isaac Kingma</div> <div>Lab Day Tuesday</div> <div>SM By Isaac Kingma</div> <div>TA Initials ALL</div> <div>kingm May 23, 2022 11:02:07 AM May 22, 2022 11:24:54 PM</div>		<div>The Department of Mechanical Engineering UNIVERSITY OF ALBERTA</div> <div>TITLE: The Bracket Part</div> <div><div>SIZE B</div><div>Assignment Number Assignment_01</div></div> <div>REV 1</div> <div>SCALE: 3:2 Mass: 509.51</div> <div>SHEET 1 OF 1</div>		
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Assignment Solution

<b>MecE 265</b>		UNLESS OTHERWISE SPECIFIED:		DRAWN BY:		 The Department of Mechanical Engineering UNIVERSITY OF ALBERTA	
Instructor: <b>Dr. D.S.Nobes</b> Fall 2021		DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: $\pm 0.5^\circ$ LINEAR X = $\pm 0.5$ X.X = $\pm 0.1$ X.XX = $\pm 0.025$		<b>David S. Nobes</b>		TITLE:	
Comments: Only make one of these		SURFACE FINISH $\mu\text{m}$ 0.6 ✓		Lab Day	ALL	The Bracket Part	
		DO NOT SCALE DRAWING		SM By	<b>D.S.Nobes</b>		
MATERIAL: Brass		dnobes September 7, 2021 10:33:58 AM December 29, 2019 12:49:16 PM		TA Initials	DSN	SIZE <b>B</b>	Assignment Number Assignment_01
FILE NAME: MecE265_Ass01_dnobes						REV 2	
				SCALE: 3:2		Mass: 509.51	SHEET 1 OF 1