



# 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 15, 2022**

*AUTOMark Assessment Grade: 290 out of 291*

*AUTOMark Recommended Grade: 100 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: 31-Dec-2019 13:57:09

DRAWING LAST SAVE DATE: 29-Jun-2022 10:15:10

MODEL CREATION DATE: 29-Dec-2019 12:49:16

MODEL LAST SAVE DATE: 07-Sep-2021 10:33:58

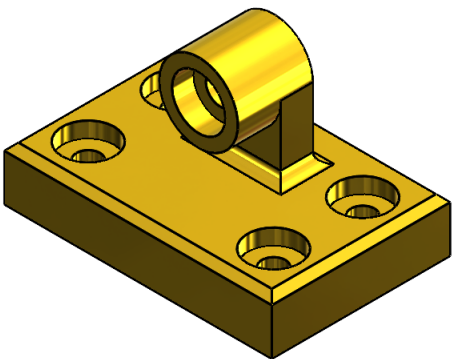
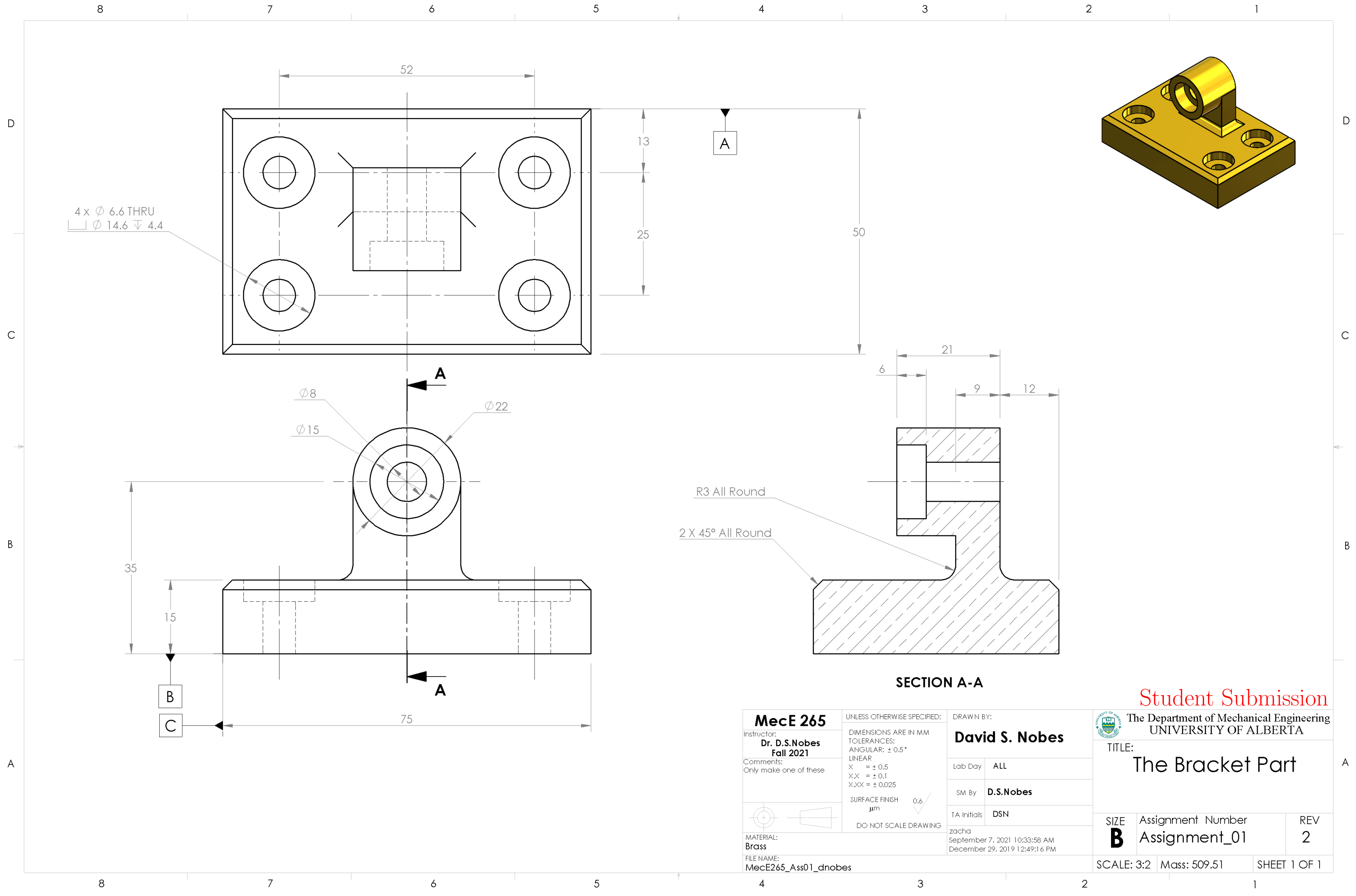
AutoMARK details:

- 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



Student Submission





The Department of Mechanical Engineering  
UNIVERSITY OF ALBERTA

TITLE:  
The Bracket Part

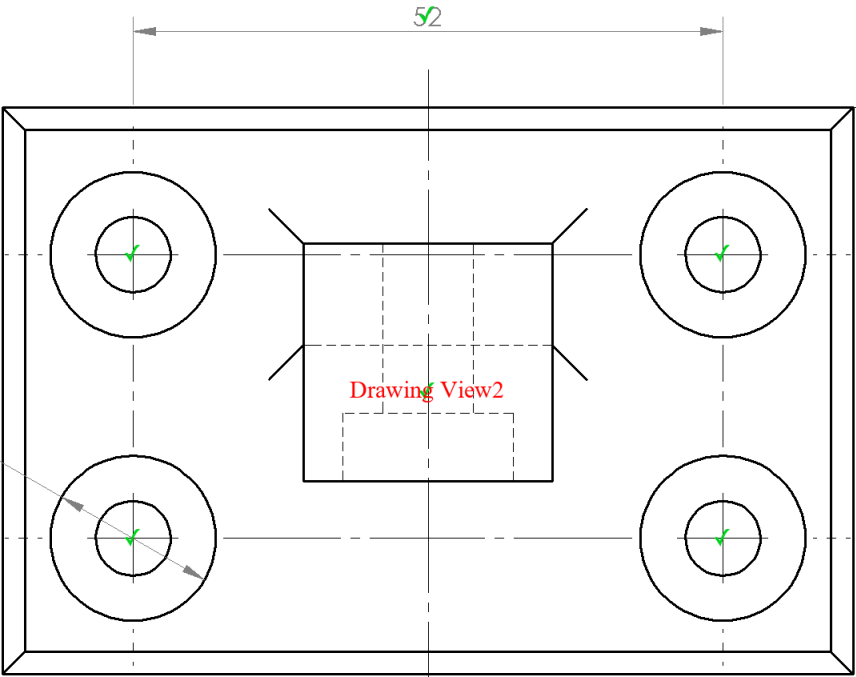
SIZE <b>B</b>	Assignment Number Assignment_01	REV 2
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SCALE: 3:2	Mass: 509.51	SHEET 1 OF 1
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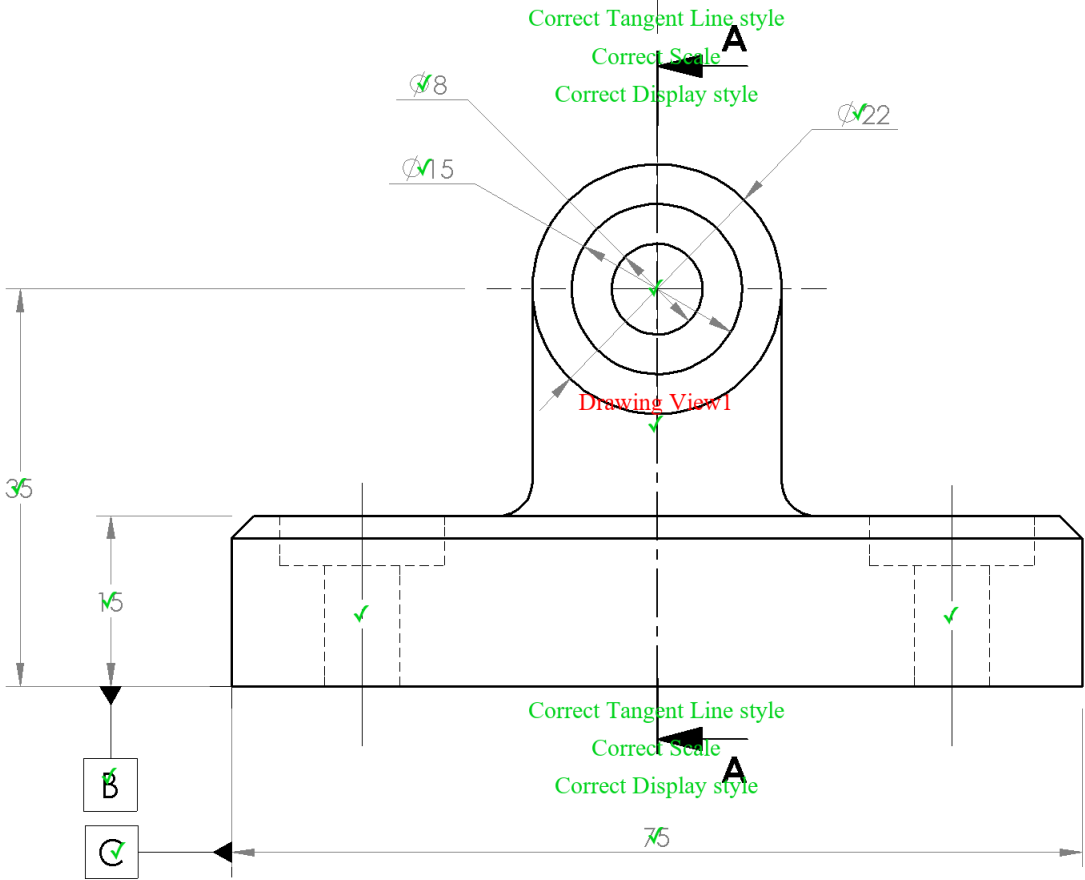
<b>MecE 265</b>		UNLESS OTHERWISE SPECIFIED:		DRAWN BY:		 The Department of Mechanical Engineering UNIVERSITY OF ALBERTA	
Instructor: <b>Dr. D.S.Nobes</b> <b>Fall 2021</b>		DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: $\pm 0.5^\circ$ LINEAR X = $\pm 0.5$ X.X = $\pm 0.1$ X.XX = $\pm 0.025$  SURFACE FINISH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

Drawing View1: 73/73  
Drawing View2: 74/75  
Drawing View3: 22/22  
Section View A-A: 55/55  
SHEET TOTAL: 273/274

4 x  $\varnothing$  6.6 THRU  
 $\varnothing$  14.6  $\nabla$  4.4

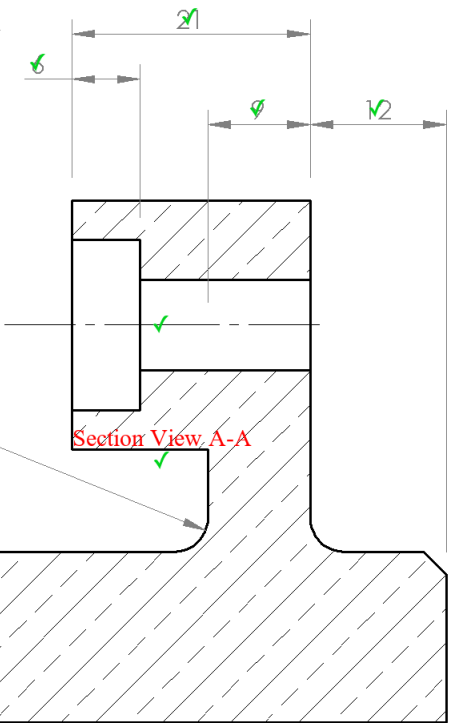
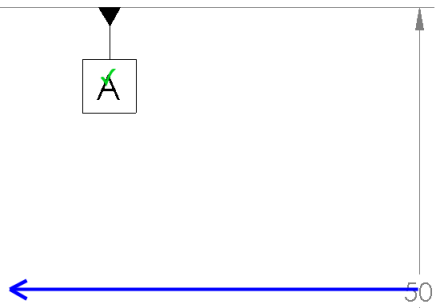


Drawing View2



Correct Tangent Line style  
Correct Scale  
Correct Display style

Correct Tangent Line style  
Correct Scale  
Correct Display style

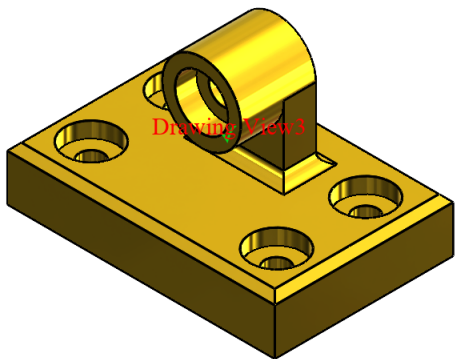


R3 All Round

2 X 45° All Round



Section View A-A

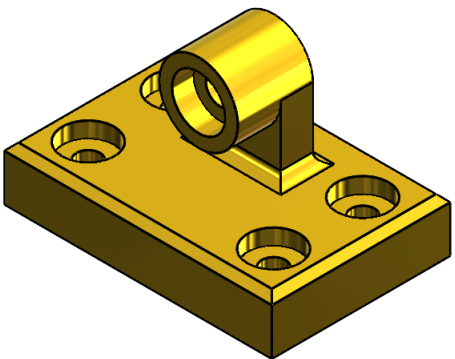
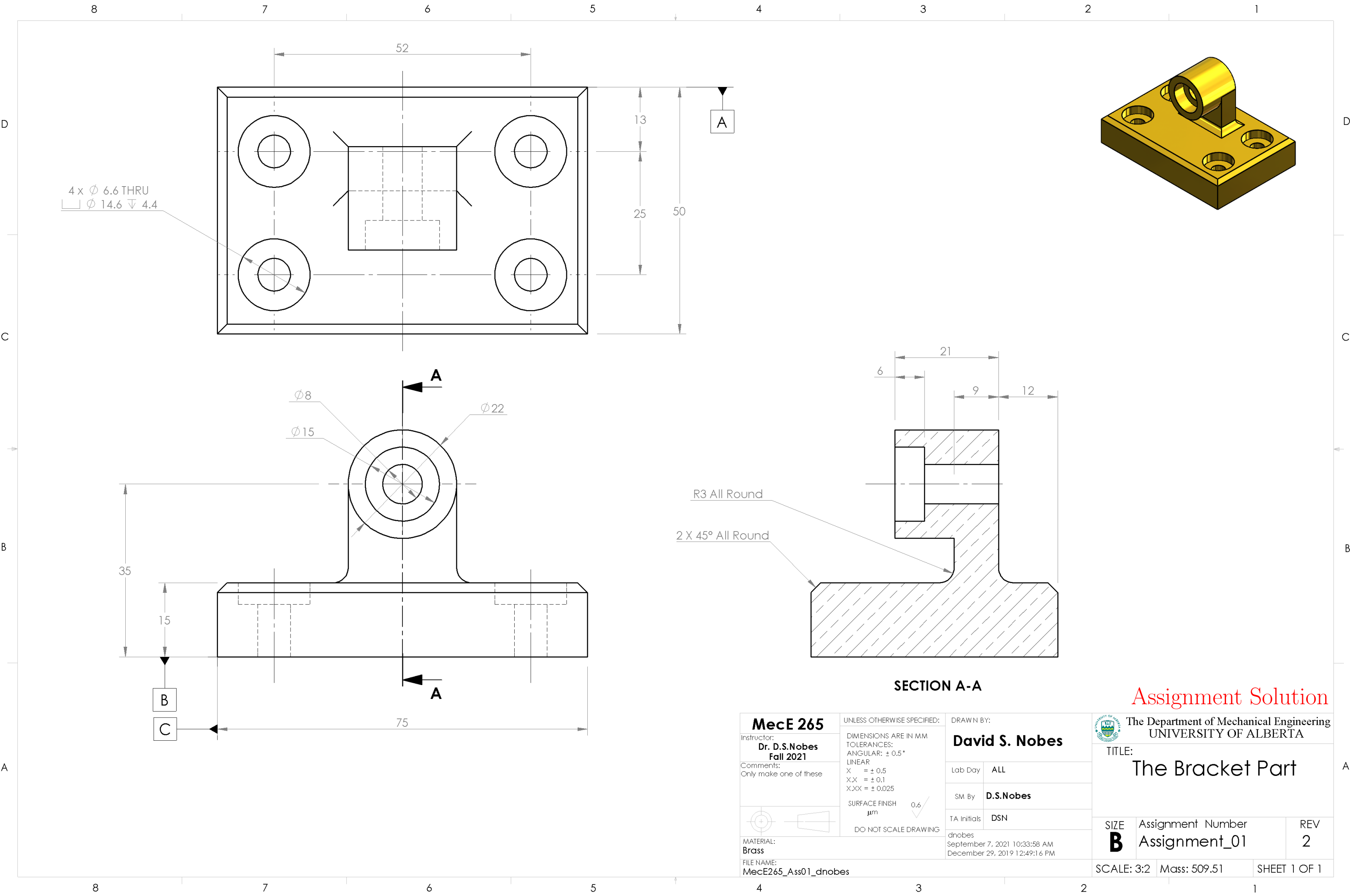
Correct Tangent Line style  
Correct Scale  
Correct Display style






Correct Tangent Line style  
Correct Scale  
Correct Display style

Automark of Student Submission

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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				TA Initials	DSN	SIZE <b>B</b>	Assignment Number Assignment_01
FILE NAME: MecE265_Ass01_dnobes				zacha September 7, 2021 10:33:58 AM December 29, 2019 12:49:16 PM		REV 2	
						SCALE: 3:2	Mass: 509.51
						SHEET 1 OF 1	



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: <b>The Bracket Part</b>		
Comments: Only make one of these		SURFACE FINISH $\mu\text{m}$ 0.6 		Lab Day	ALL			
		DO NOT SCALE DRAWING		SM By	<b>D.S.Nobes</b>	SIZE <b>B</b> Assignment Number Assignment_01 REV 2		
MATERIAL: Brass				TA Initials	DSN			
FILE NAME: MecE265_Ass01_dnobes				dnobes September 7, 2021 10:33:58 AM December 29, 2019 12:49:16 PM		SCALE: 3:2 Mass: 509.51 SHEET 1 OF 1		