



# 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 5, 2022**

*AUTOMark Assessment Grade: **272 out of 290***

*AUTOMark Recommended Grade: **94 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-Dec-2020 16:08:23

DRAWING LAST SAVE DATE: 29-Jun-2022 11:46:54

MODEL CREATION DATE: 09-Jun-2016 09:39:47

MODEL LAST SAVE DATE: 13-Aug-2021 16:01:41

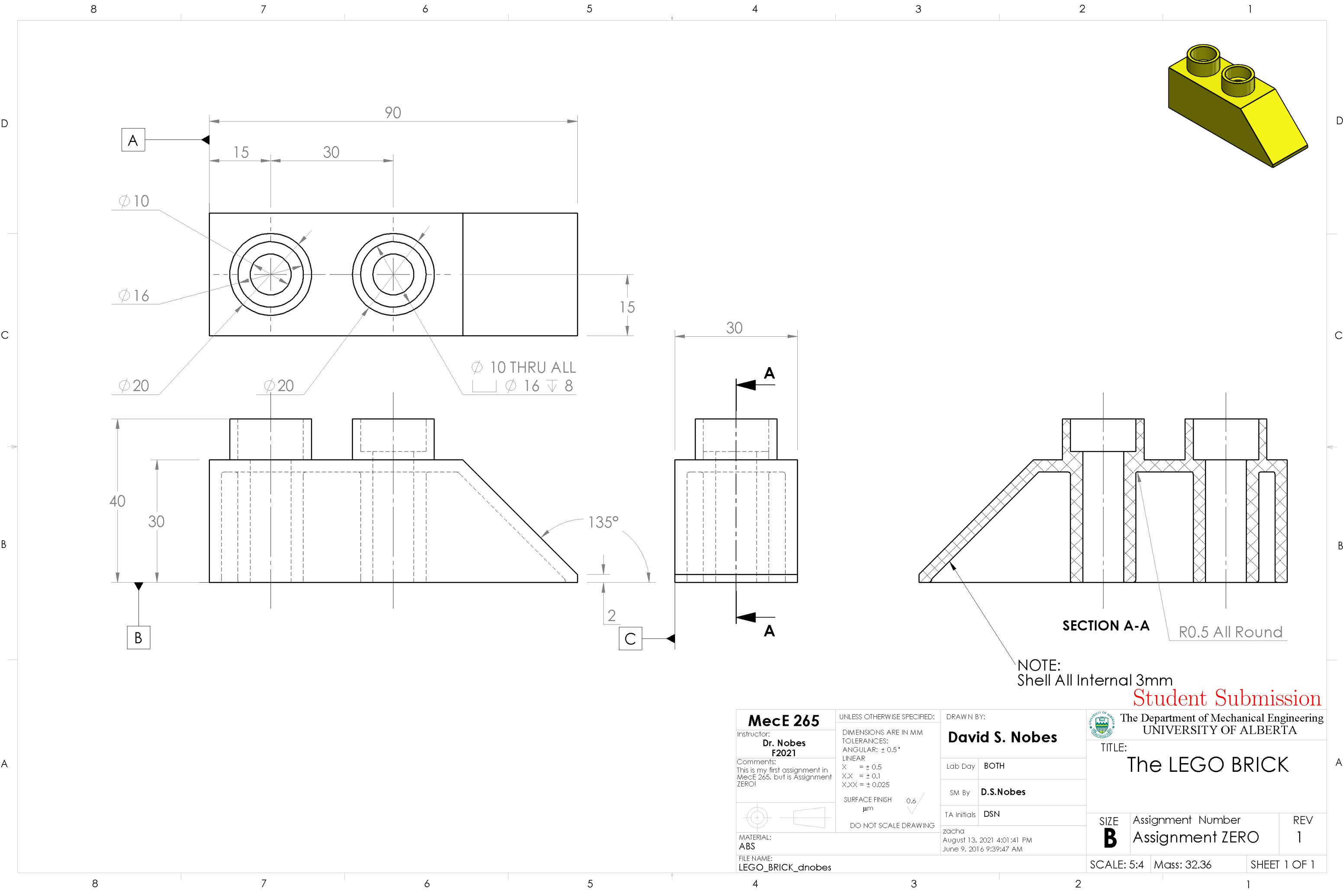
AutoMARK details:

- 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

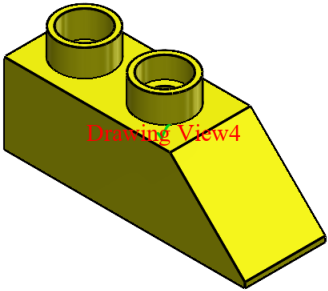
Symbol/Colour	Meaning
✓	No deductions on feature
Colour	Incorrect value
Colour	Miscellaneous error
Colour	Incorrect Position
Colour	Unrecognized feature
Colour	Missing feature
?	Feature not found on key



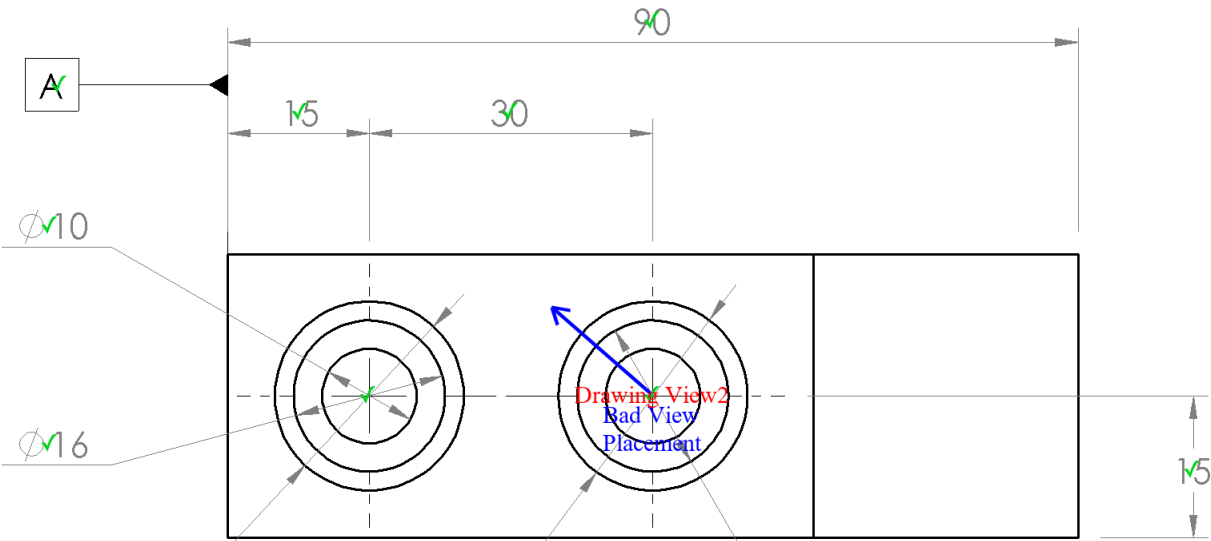
Student Submission

<b>MecE 265</b>		UNLESS OTHERWISE SPECIFIED:		DRAWN BY:		 The Department of Mechanical Engineering UNIVERSITY OF ALBERTA	
Instructor: <b>Dr. Nobes</b> <b>F2021</b>		DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: $\pm 0.5^\circ$ LINEAR X     = $\pm 0.5$ X.X   = $\pm 0.1$ X.XX  = $\pm 0.025$		<b>David S. Nobes</b>		TITLE:	
Comments: This is my first assignment in MecE 265, but is Assignment ZERO!		SURFACE FINISH     0.6 ✓ μm		Lab Day	BOTH	The LEGO BRICK	
		DO NOT SCALE DRAWING		SM By	<b>D.S.Nobes</b>		
MATERIAL: ABS				TA Initials	DSN	SIZE <b>B</b>	Assignment Number Assignment ZERO
FILE NAME: LEGO_BRICK_dnobes				zacha August 13, 2021 4:01:41 PM June 9, 2016 9:39:47 AM		REV 1	
						SCALE: 5:4	Mass: 32.36
						SHEET 1 OF 1	

Drawing View1: 47/53  
Drawing View2: 76/82  
Drawing View3: 32/32  
Drawing View4: 22/22  
Section View A-A: 29/35  
SHEET TOTAL: 255/273

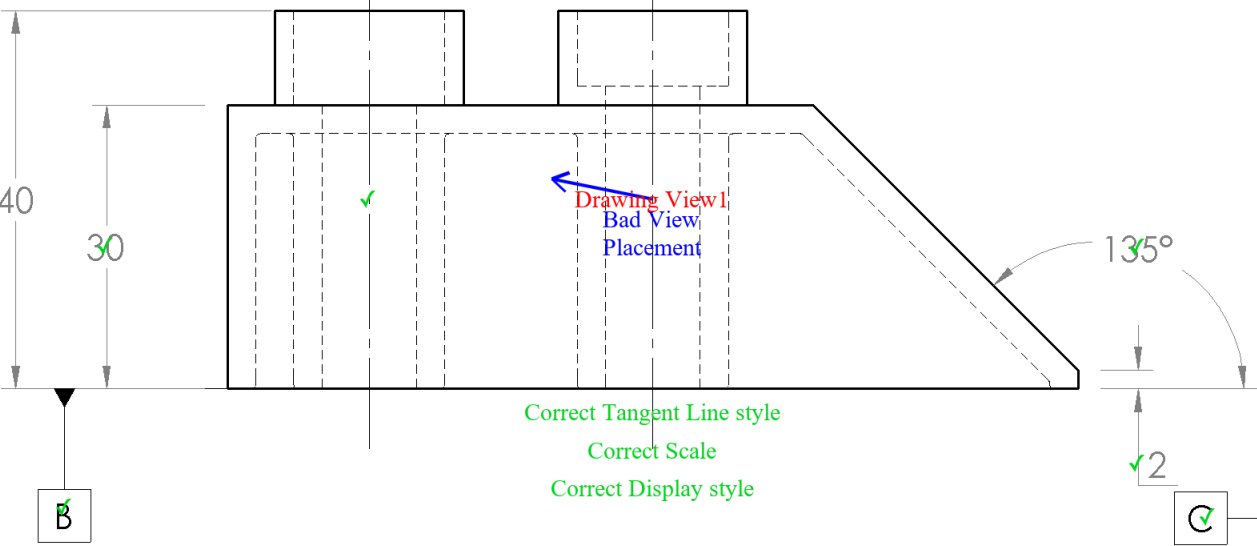


Correct Tangent Line style  
Correct Scale  
Correct Display style

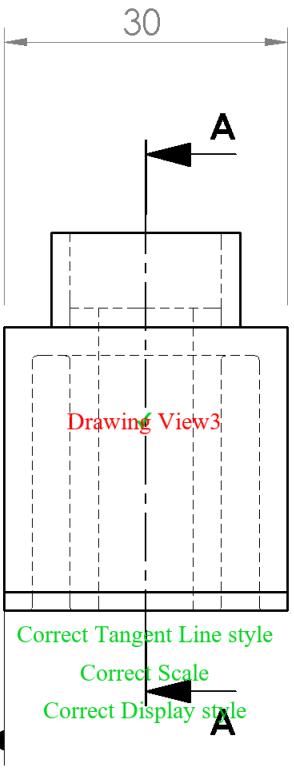


Correct Tangent Line style  
Correct Scale  
Correct Display style

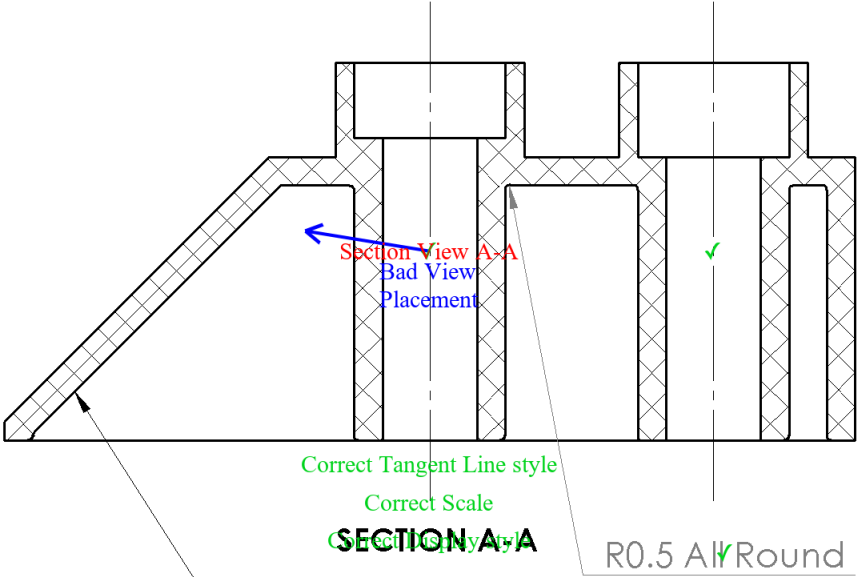
Ø 10 THRU ALL  
Ø 16  
8



Correct Tangent Line style  
Correct Scale  
Correct Display style



Correct Tangent Line style  
Correct Scale  
Correct Display style





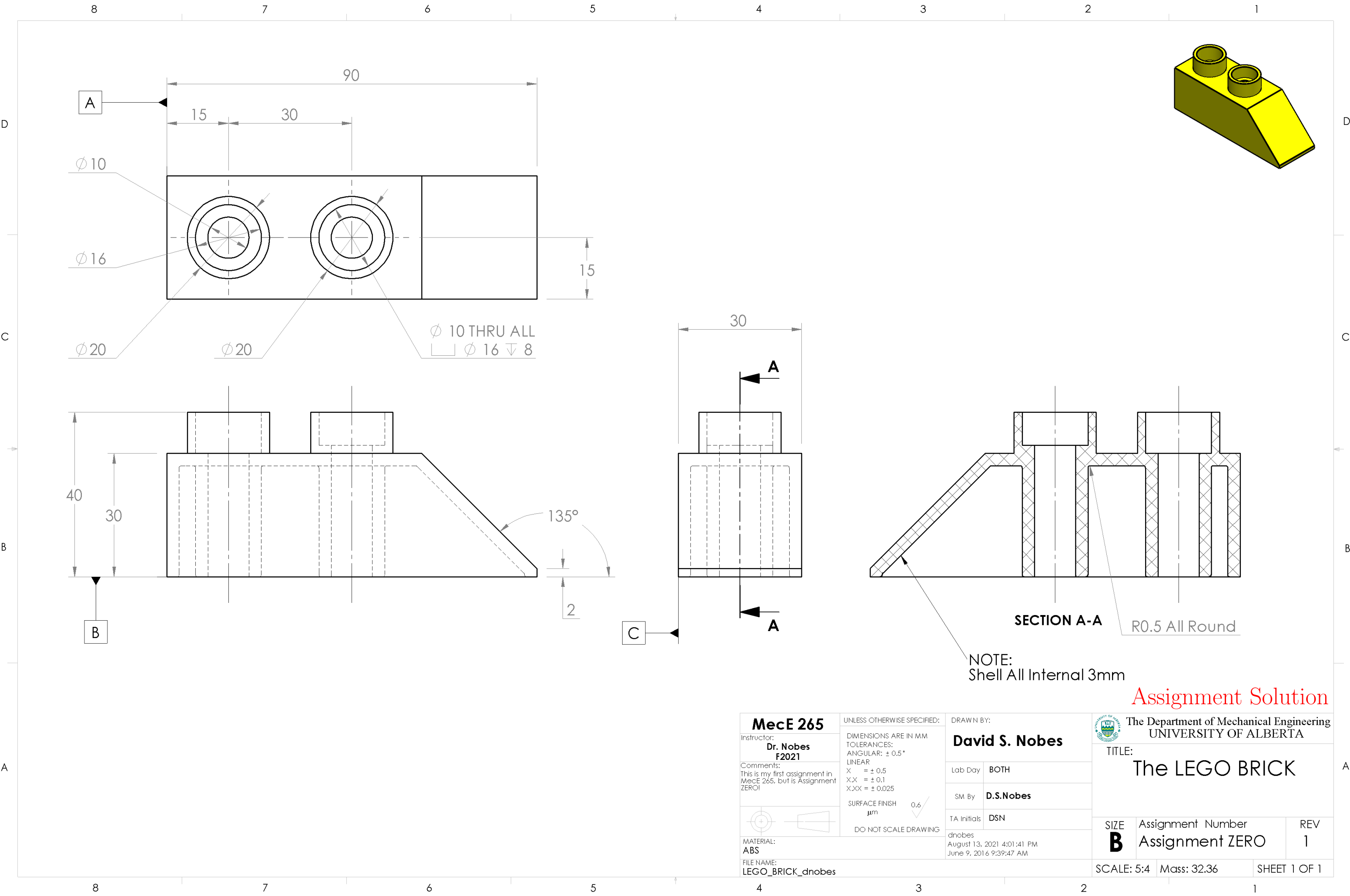
Correct Tangent Line style  
Correct Scale  
Correct Display style

R0.5 All Round



NOTE:  
Shell All Internal 3mm

Automark of Student Submission

<b>MecE 265</b>		UNLESS OTHERWISE SPECIFIED:		DRAWN BY:		 The Department of Mechanical Engineering UNIVERSITY OF ALBERTA	
Instructor: <b>Dr. Nobes</b> <b>F2021</b>		DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: ± 0.5° LINEAR X     = ± 0.5 X.X   = ± 0.1 X.XX  = ± 0.025		<b>David S. Nobes</b>		TITLE:	
Comments: This is my first assignment in MecE 265, but is Assignment ZERO!		SURFACE FINISH μm <div>0.6</div>		Lab Day	BOTH	The LEGO BRICK	
		DO NOT SCALE DRAWING		SM By	<b>D.S.Nobes</b>		
MATERIAL: ABS		zacha August 13, 2021 4:01:41 PM June 9, 2016 9:39:47 AM		TA Initials	DSN	SIZE <b>B</b>	Assignment Number Assignment ZERO
FILE NAME: LEGO_BRICK_dnobes						REV 1	
				SCALE: 5:4		Mass: 32.36	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. Nobes F2021</b>		DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: $\pm 0.5^\circ$ LINEAR X = $\pm 0.5$ X.X = $\pm 0.1$ X.XX = $\pm 0.025$		<b>David S. Nobes</b>		TITLE: <b>The LEGO BRICK</b>		
Comments: This is my first assignment in MecE 265, but is Assignment ZERO!		SURFACE FINISH $\mu\text{m}$ 0.6 ✓		Lab Day	BOTH			
		DO NOT SCALE DRAWING		SM By	<b>D.S.Nobes</b>			
MATERIAL: ABS		dnobes August 13, 2021 4:01:41 PM June 9, 2016 9:39:47 AM		TA Initials	DSN	SIZE <b>B</b>	Assignment Number <b>Assignment ZERO</b>	REV <b>1</b>
FILE NAME: LEGO_BRICK_dnobes				SCALE: 5:4		Mass: 32.36		SHEET 1 OF 1