



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: **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

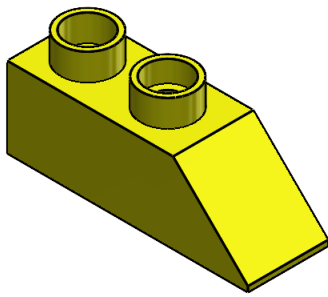
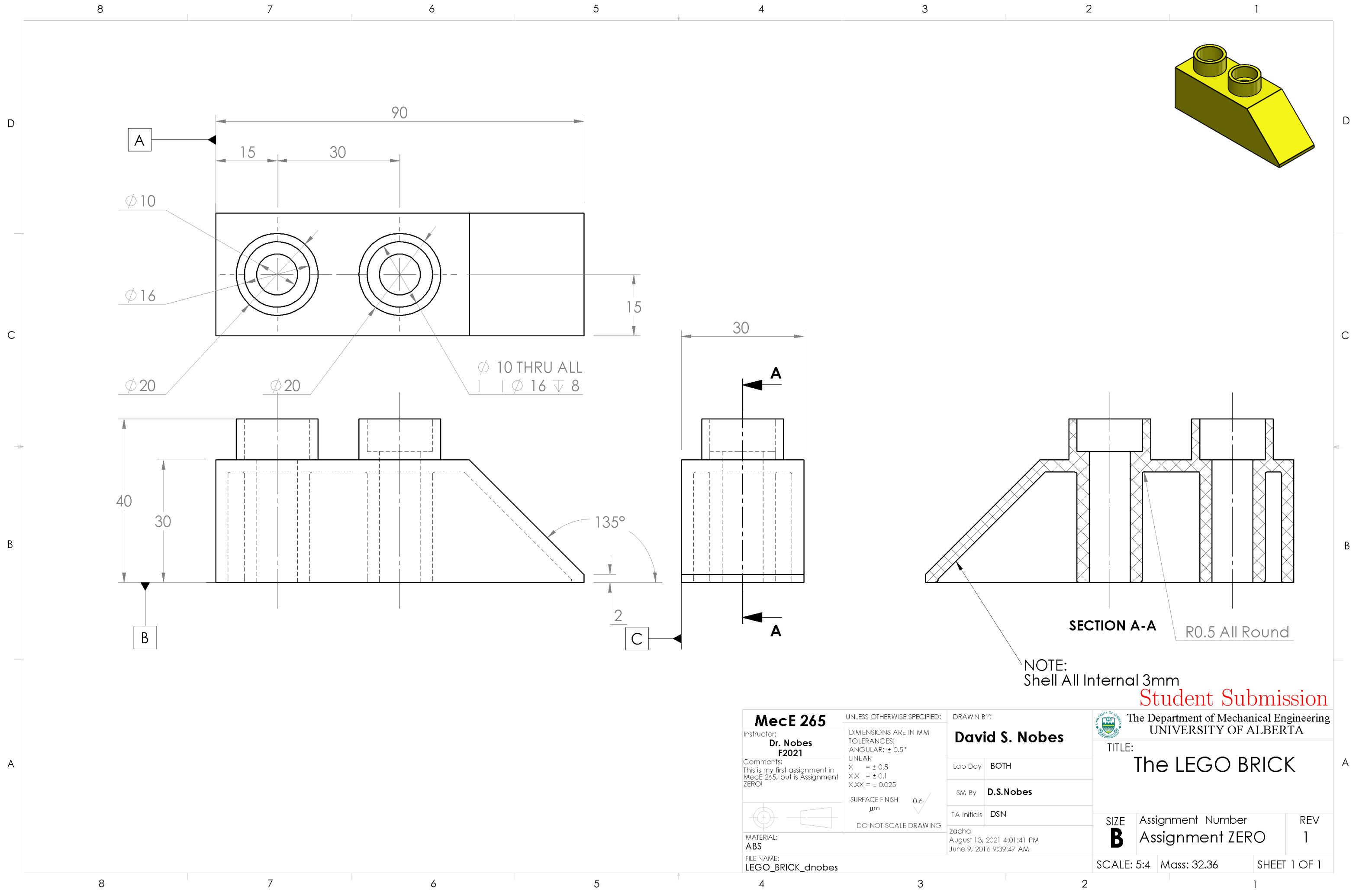
AutoMARK details:



- 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

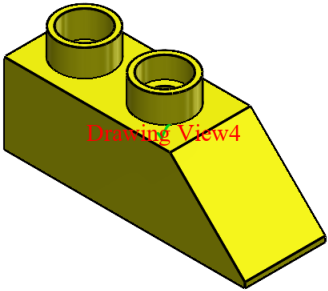
Symbol/Colour	Meaning
✓	No deductions on feature
Colour	Incorrect value
Colour	Miscellaneous error
Colour	Incorrect Position
Colour	Unrecognized feature
Colour	Missing feature
?	Feature not found on key



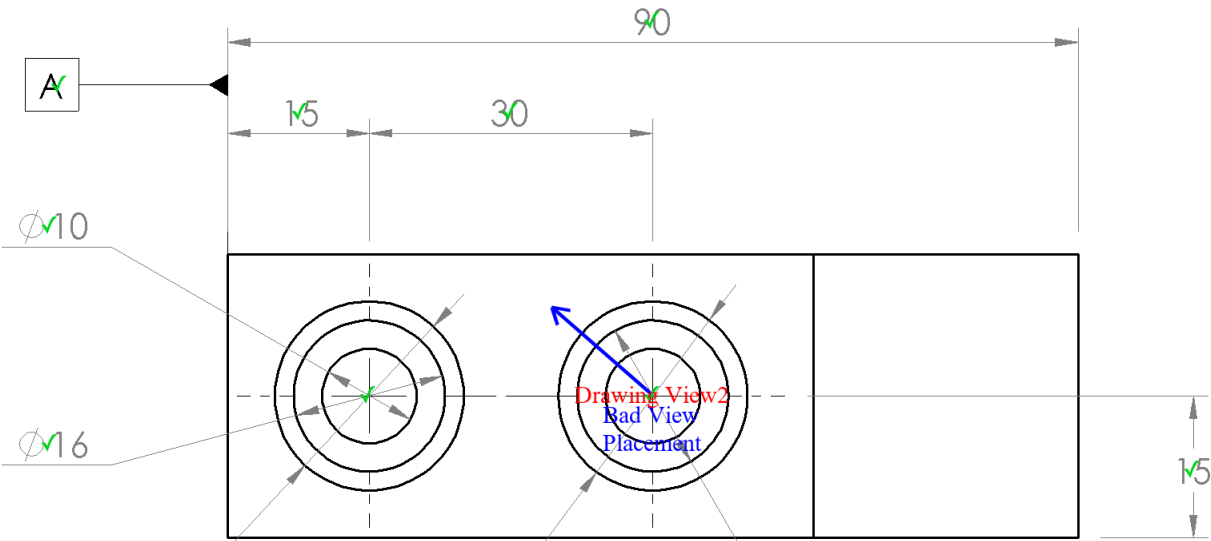
<div>MecE 265</div> <div>Instructor: Dr. Nobes F2021</div> <div>Comments: This is my first assignment in MecE 265, but is Assignment ZERO!</div> <div></div> <div>MATERIAL: ABS</div> <div>FILE NAME: LEGO_BRICK_dnobes</div>		<div>UNLESS OTHERWISE SPECIFIED:</div> <div>DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: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

Student Submission

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

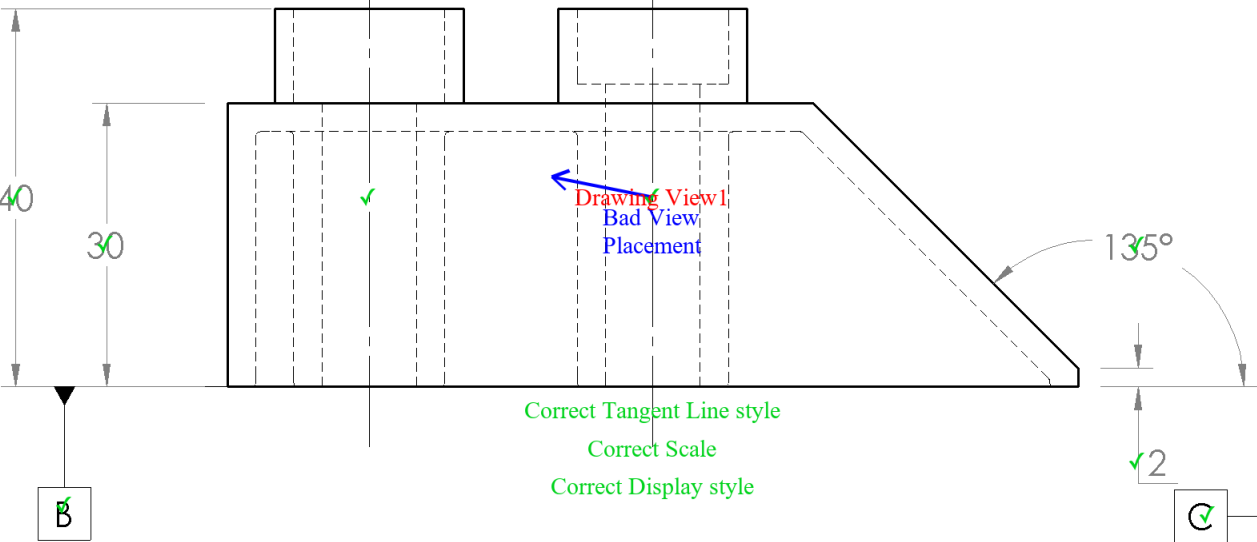


Correct Tangent Line style
Correct Scale
Correct Display style

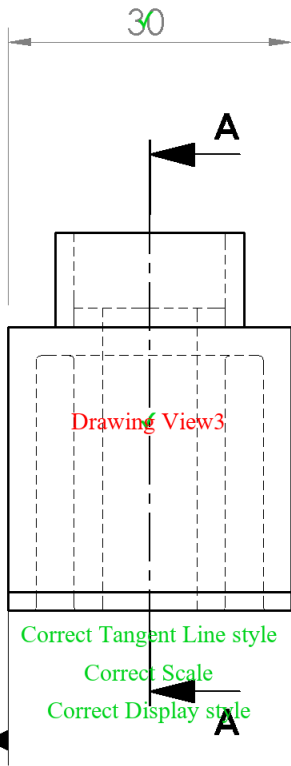


Correct Tangent Line style
Correct Scale
Correct Display style

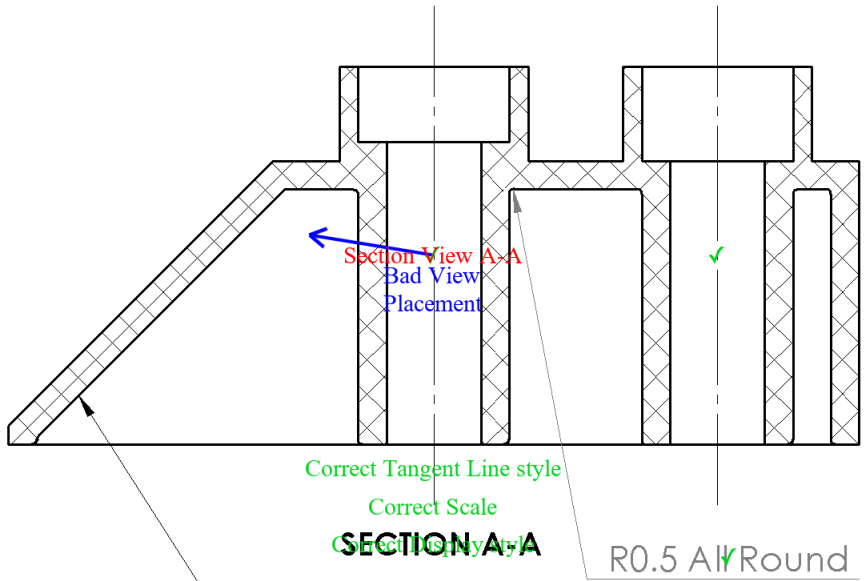
Ø 10 THRU ALL
Ø 16
8



Correct Tangent Line style
Correct Scale
Correct Display style



Correct Tangent Line style
Correct Scale
Correct Display style





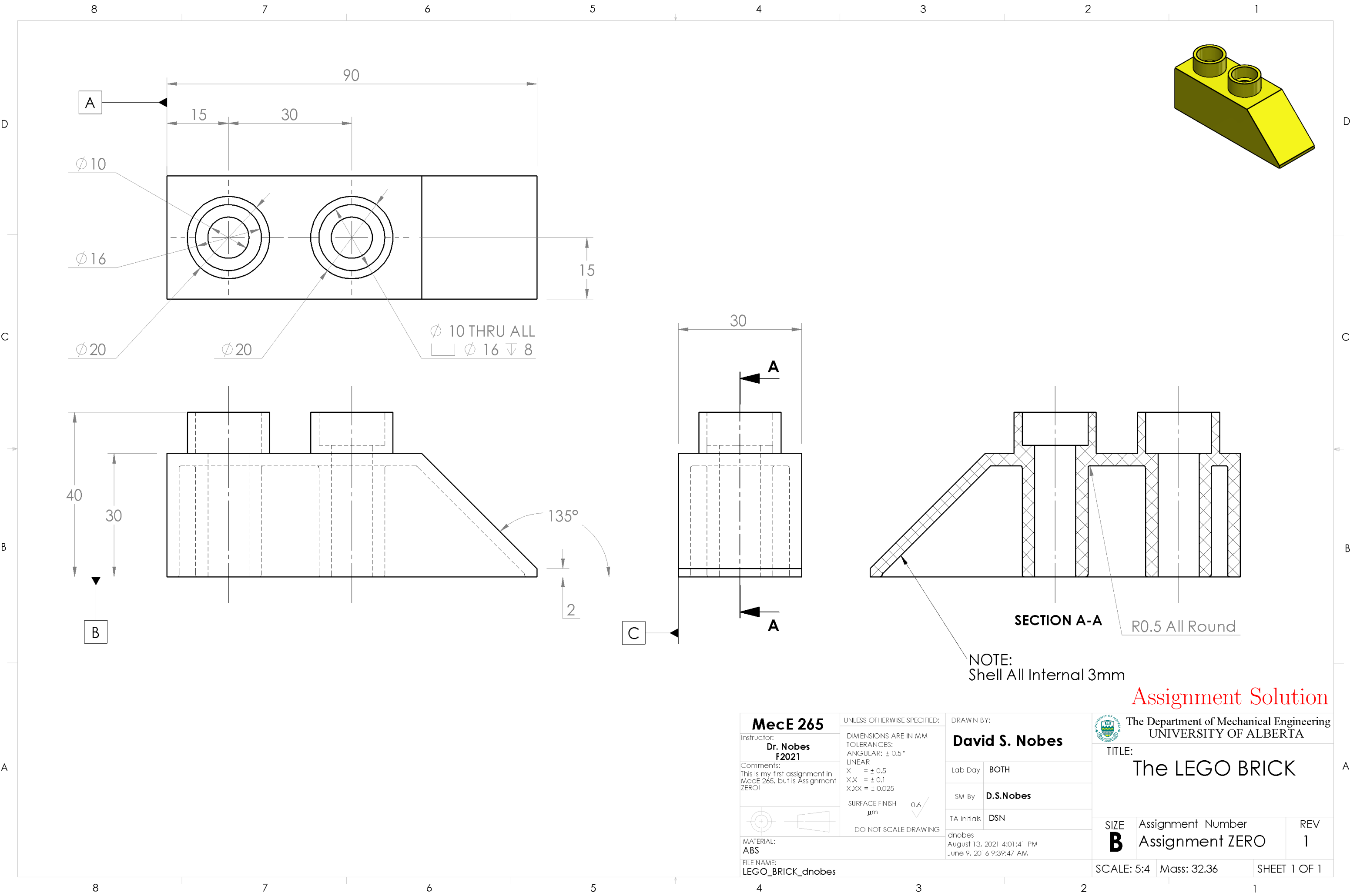
Correct Tangent Line style
Correct Scale
Correct Display style

R0.5 All Round


NOTE:
Shell All Internal 3mm

Automark of Student Submission

MecE 265		UNLESS OTHERWISE SPECIFIED:		DRAWN BY:		 The Department of Mechanical Engineering UNIVERSITY OF ALBERTA	
Instructor: Dr. Nobes F2021		DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: ± 0.5° LINEAR X = ± 0.5 X.X = ± 0.1 X.XX = ± 0.025		David S. Nobes		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	D.S.Nobes		
MATERIAL: ABS		zacha August 13, 2021 4:01:41 PM June 9, 2016 9:39:47 AM		TA Initials	DSN	SIZE B	Assignment Number Assignment ZERO
FILE NAME: LEGO_BRICK_dnobes						REV 1	
				SCALE: 5:4		Mass: 32.36	SHEET 1 OF 1



Assignment Solution

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