UNIVERSITY OF ALBERTA
Department of Mechanical Engineering

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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: **270 out of 290**

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-Dec-2020 16:08:23

DRAWING LAST SAVE DATE: 29-Jun-2022 11:47:34

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

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

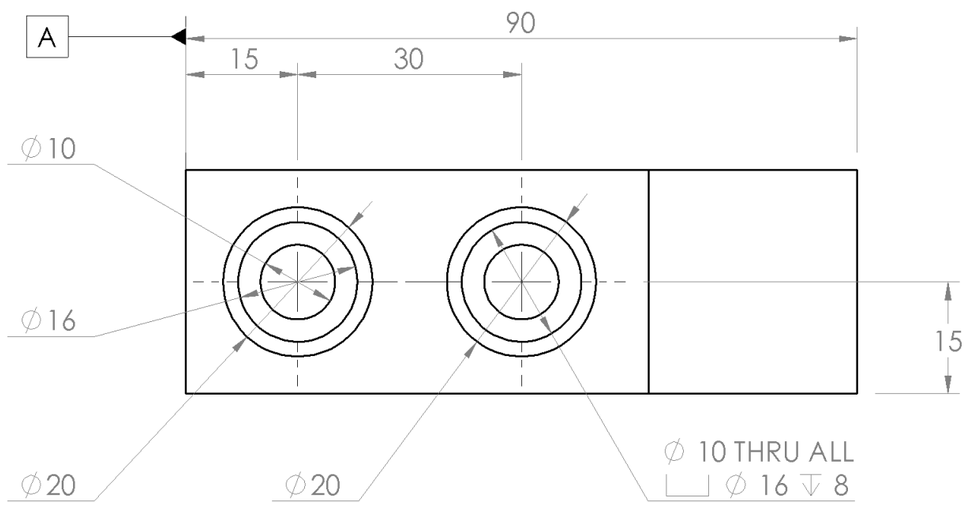
*A*utoMARK details:

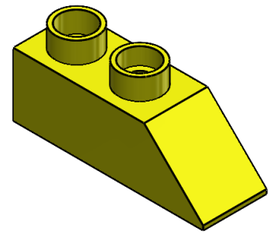
- Sheetnames should contain only alphabetical characters
- Weights of feature properties are set by the marker
- AutoMARK v 4.0 software written and designed by Owen Stadlwieser

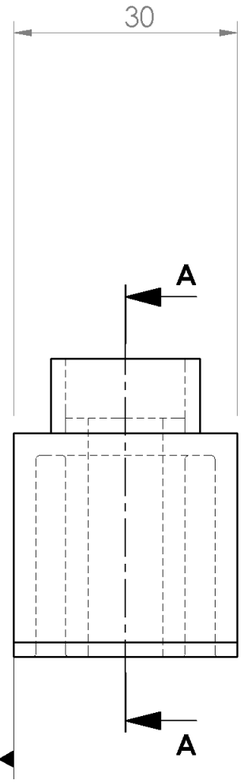
*A*utoMARK Criterion (The weights of these criterion are decided by the marker):

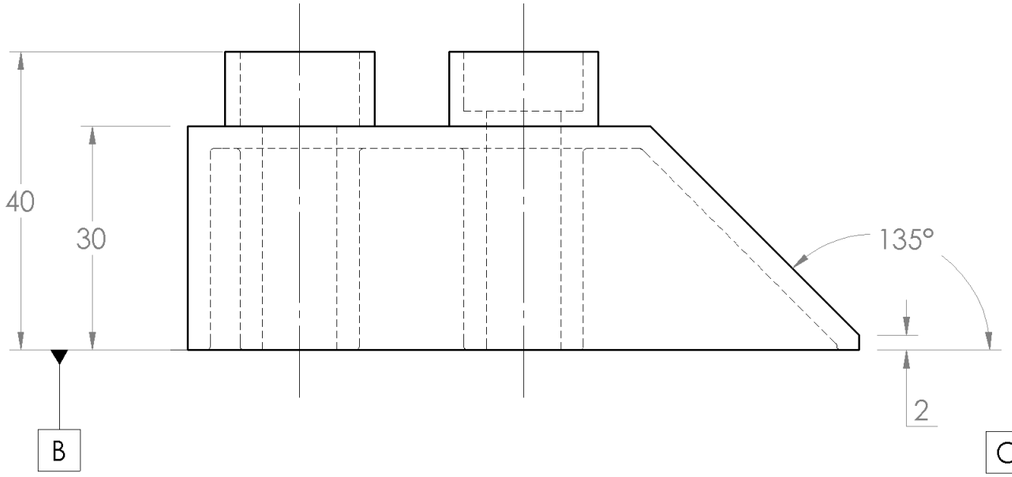
- DRAWING: SheetOrder, ExtraSheets
- SHEET: SheetPaperSize, SheetScale, SheetTemplate, SheetExtraBOMS, SheetExtraViews, SheetViewTypes, SheetIntersectingBallons
- BILLOFMATERIALS: BOMTableType, BOMNumberColumns, BOMNumberRows, BOMPosition, BOMTableHeight, BOMTableWidth, BOMFontType, BOMFontSize
- VIEW: ViewScale, ViewDisplayStyle, ViewExtraDimension, ViewPosition, ViewExtraCenterMarks, ViewMass, ViewMaterial, ViewExtraDatums, ViewWrongProjection, ViewExtraCenterlines
- DIMENSION: DimensionDangling, DimensionWrongView, DimensionPosition, DimensionArrowSide, DimensionValue, DimensionBadText
- CENTERLINE: CenterlineDangling, CenterlinePosition
- CENTERMARK: CentermarkDangling, CentermarkPosition, CentermarkShowlines, CentermarkAngle, CentermarkConnectionLines, CentermarkExtensions, CentermarkGap, CentermarkSize, CentermarkGroupedCorrectly
- DATUM: DatumDangling, DatumWrongView, DatumPosition, DatumLabel, DatumDisplayStyle, DatumFilledTriangle
- Ballon: BallonDangling, BallonPosition

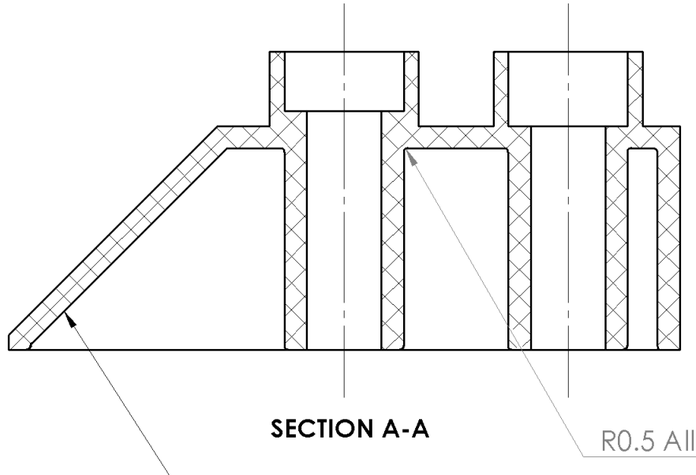
*S*ymbol/Colour	*M*eaning
✓	No deductions on feature
Colour	Incorrect value
Colour	Miscellaneous error
Colour	Incorrect Position
Colour	Unrecognized feature
Colour	Missing feature
?	Feature not found on key









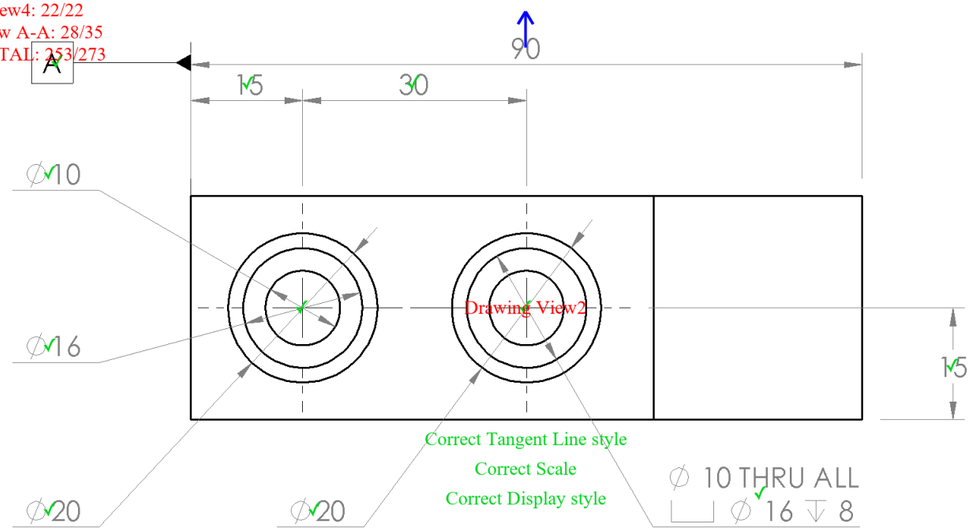


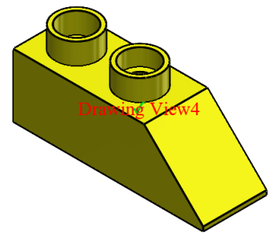
NOTE:
Shell All Internal 3mm

Student Submission

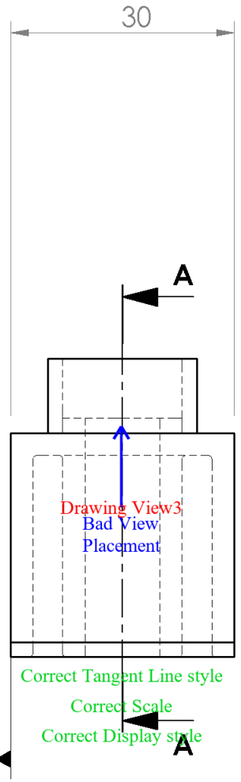
MecE 265 Instructor: **Dr. Nobes F2021** Comments: This is my first assignment in MecE 265, but is Assignment ZERO!	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: ± 0.5° LINEAR X = ± 0.5 X.X = ± 0.1 X.XX = ± 0.025 SURFACE FINISH µm 0.6 DO NOT SCALE DRAWING	DRAWN **David S. Nobes** Lab Day: BOTH SM By: **D.S.Nobes** TA Initials: DSN zacha 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**
MATERIAL: ABS			SIZE **B** · Assignment Number: Assignment ZERO · REV: 1
FILE NAME: LEGO_BRICK_dnobes			SCALE: 5:4 · Mass: 32.36 · SHEET 1 OF 1

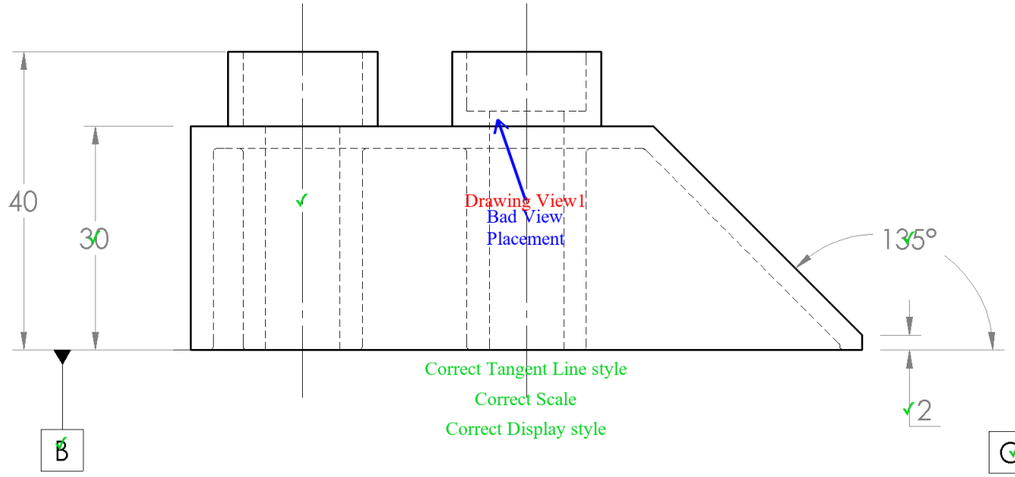
Drawing View1: 47/53
Drawing View2: 81/82
Drawing View3: 26/32
Drawing View4: 22/22
Section View A-A: 28/35
SHEET TOTAL: 253/273

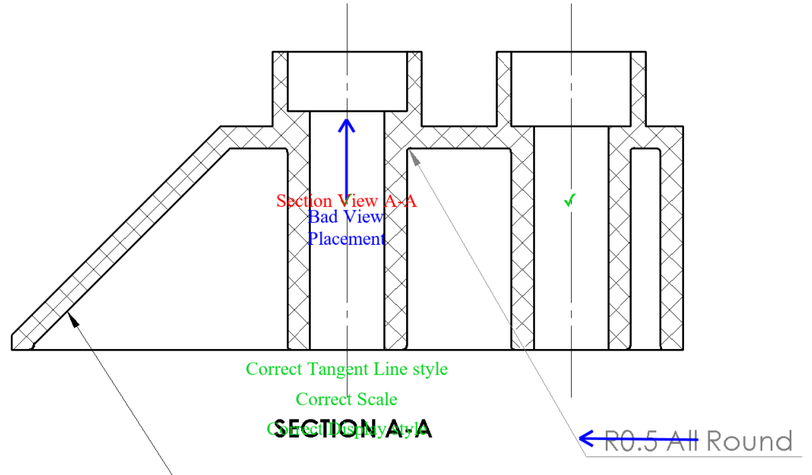




Correct Tangent Line style
Correct Scale
Correct Display style

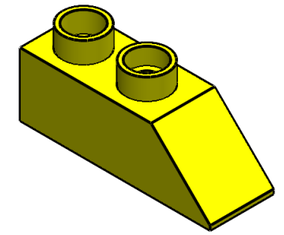


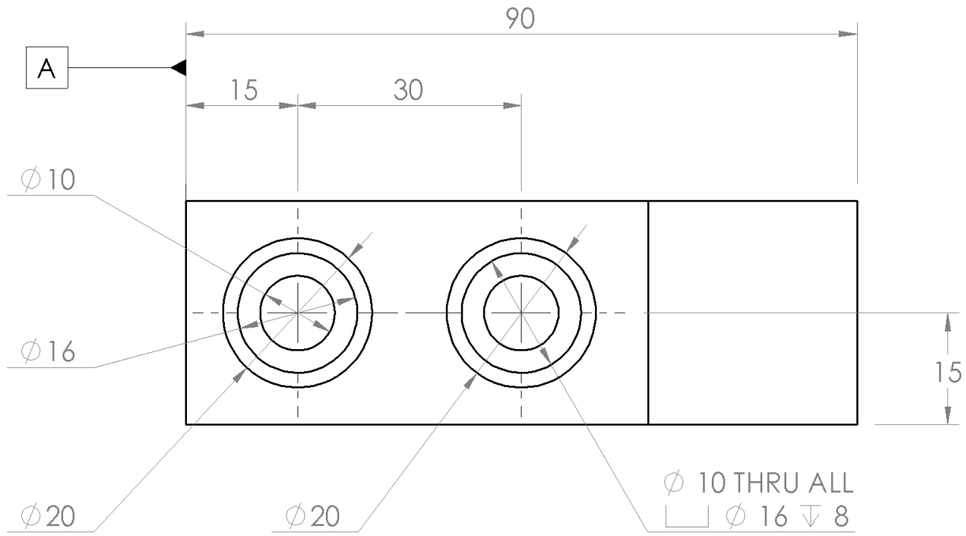


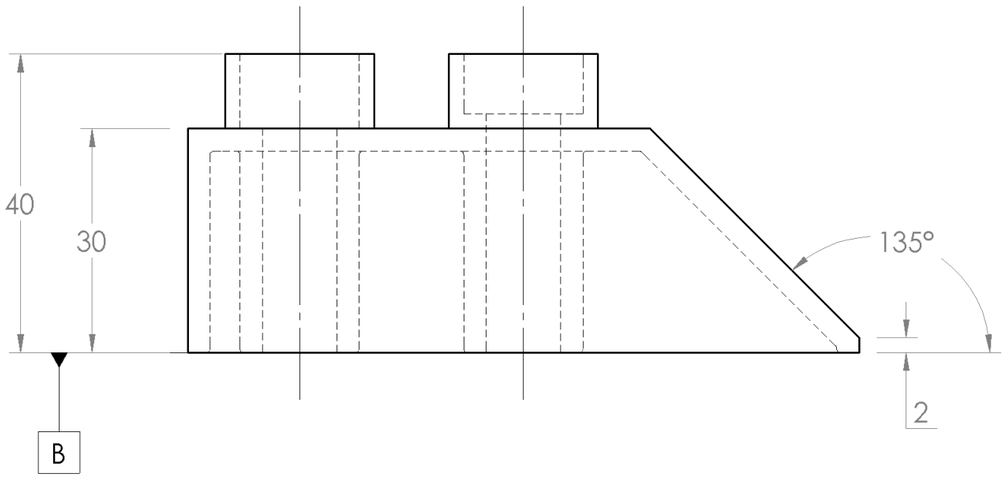


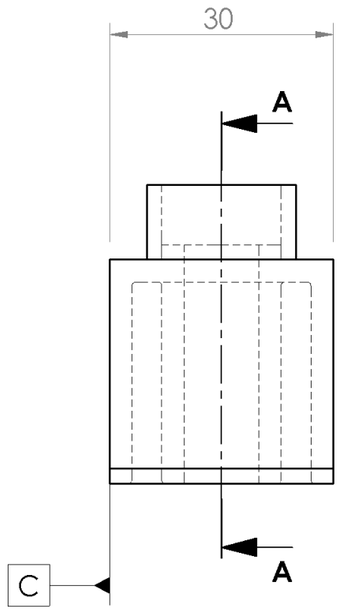
NOTE: Automark of Student Submission
Shell All Internal 3mm

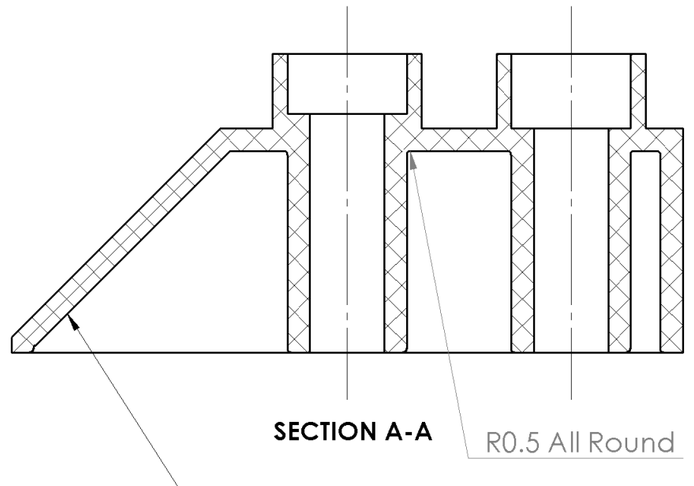
MecE 265	UNLESS OTHERWISE SPECIFIED:	DRAWN	The Department of Mechanical Engineering, UNIVERSITY OF ALBERTA
Instructor: Dr. Nobes F2021	DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: ± 0.5° LINEAR X = ± 0.5 X.X = ± 0.1 X.XX = ± 0.025	David S. Nobes	TITLE: The LEGO BRICK
Comments: This is my first assignment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











NOTE:
Shell All Internal 3mm

Assignment Solution

MecE 265 Instructor: **Dr. Nobes F2021** Comments: This is my first assignment in MecE 265, but is Assignment ZERO!	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: ± 0.5° 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**
MATERIAL: ABS FILE NAME: LEGO_BRICK_dnobes			SIZE **B** · Assignment Number: Assignment ZERO · REV: 1 SCALE: 5:4 · Mass: 32.36 · SHEET 1 OF 1