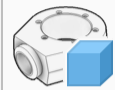
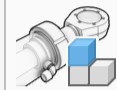


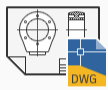
New



Part



Assembly



Drawing



Presentation

Advanced



Projects Shortcuts File Details

Default

Inventor Electrical Project

Name	Default
Type	Single User
Location	C:\Users\Public\Documents\Autodesk\Inventor 2020\Default.ipj
Workspace	(None)
Workgroup Search Paths	(None)
Libraries	(None)
Frequently Used Subfolders	(None)

KLIK

Vaihdetaan oletus tuumat millimetriin

 Open shortcuts using Windows Explorer

Recent Documents

Tiles | Large | Small | List

Pinned [0 Files] ▼

Unpinned [0 Files] ▼

Project

- Active Project
- All Recent Docs

File Types

- All
- Assemblies
- Drawings
- Parts
- Presentations

Sort By

- Recently Opened
- Date Modified
- Name
- Location
- Size

Date Modified

- All Dates
- Last Day
- Last Week
- Last Month
- Last 6 Months
- Last Year

File Get Started Tools Collaborate

New Open Projects Open Samples Home Team Web Tutorial Gallery Back What's New Highlight New Help

Launch My Home New Features Help

Configure Default Template

Measurement Units - Default

Inches

Millimeters

Drawing Standard - Default

ANSI BSI DIN GB

GOST ISO JIS

OK Cancel



Projects Shortcuts File Details

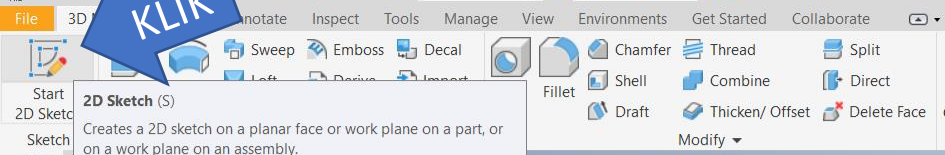
Name	Default
Default	<input checked="" type="checkbox"/>
Inventor Electrical Project	

Name	Default
Type	Single User
Location	C:\Users\Public\Documents\Autodesk\Inventor 2020\Default.ipj
Workspace	(None)
Workgroup Search Paths	(None)
Libraries	(None)
Frequently Used Subfolders	(None)

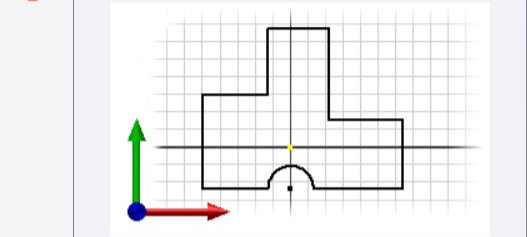
Autodesk Inventor Professional

The default template (standard.*) will be replaced according to your selected drawing standard or measurement unit. The original default template will be copied to the OldTemplates folder as a backup. Do you want to overwrite?



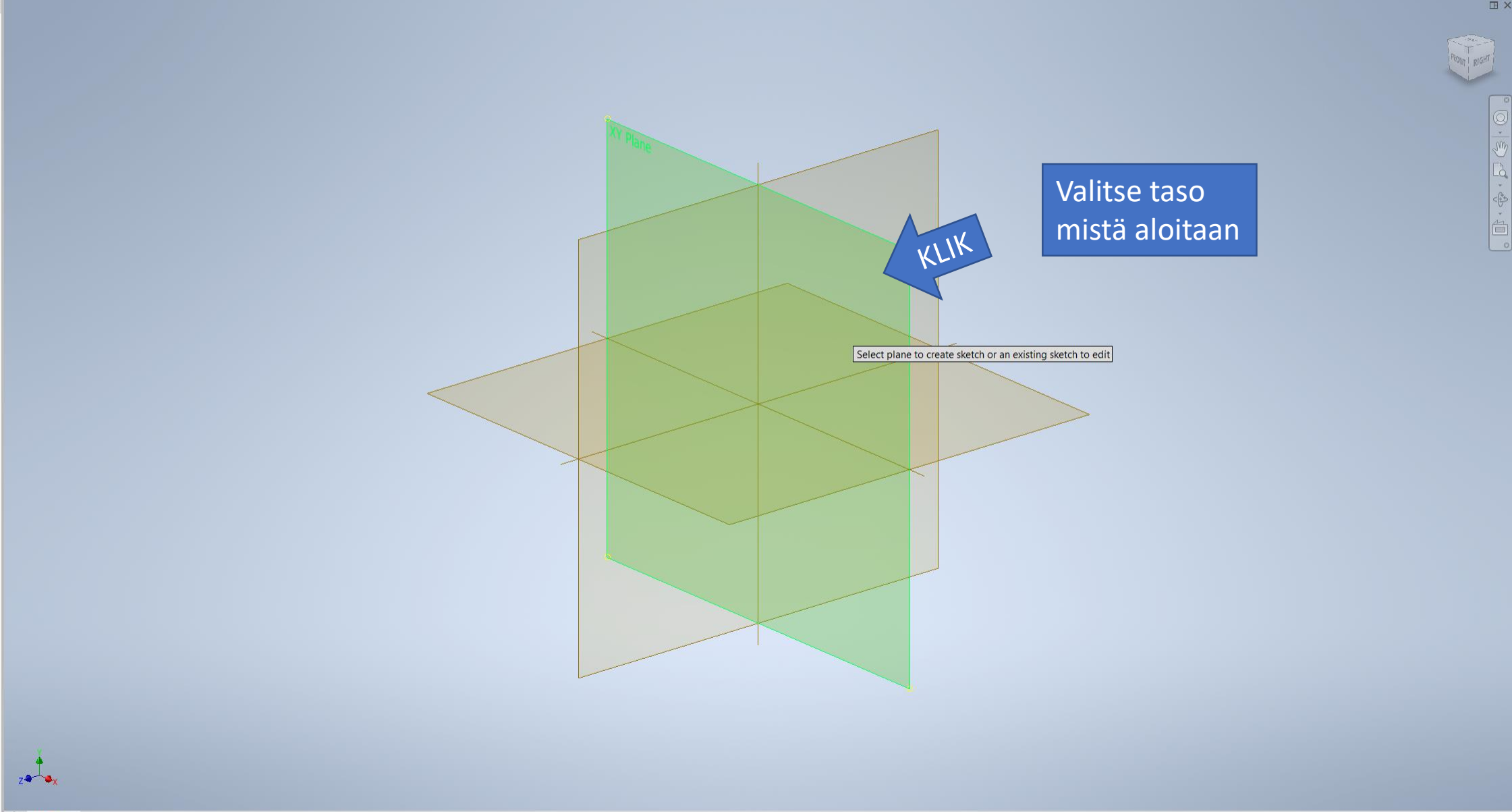
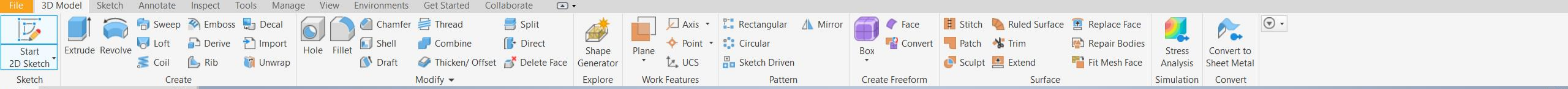


2D Sketch (S)
Creates a 2D sketch on a planar face or work plane on a part, or on a work plane on an assembly.



Press F1 for more help

Piirtäminen
aloitetaan
Sketchistä.



Valitse taso mistä aloitaan

KLIK

Select plane to create sketch or an existing sketch to edit

Start 2D Sketch Sketch Model x + Part2 View: Master Origin Sketch1 End of Part

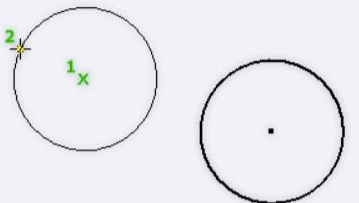
Move Trim Scale Rectangular Dimension Image Points ACAD Show Format Finish Sketch Exit

Extend Stretch Circular Mirror Pattern Constrain Insert Format

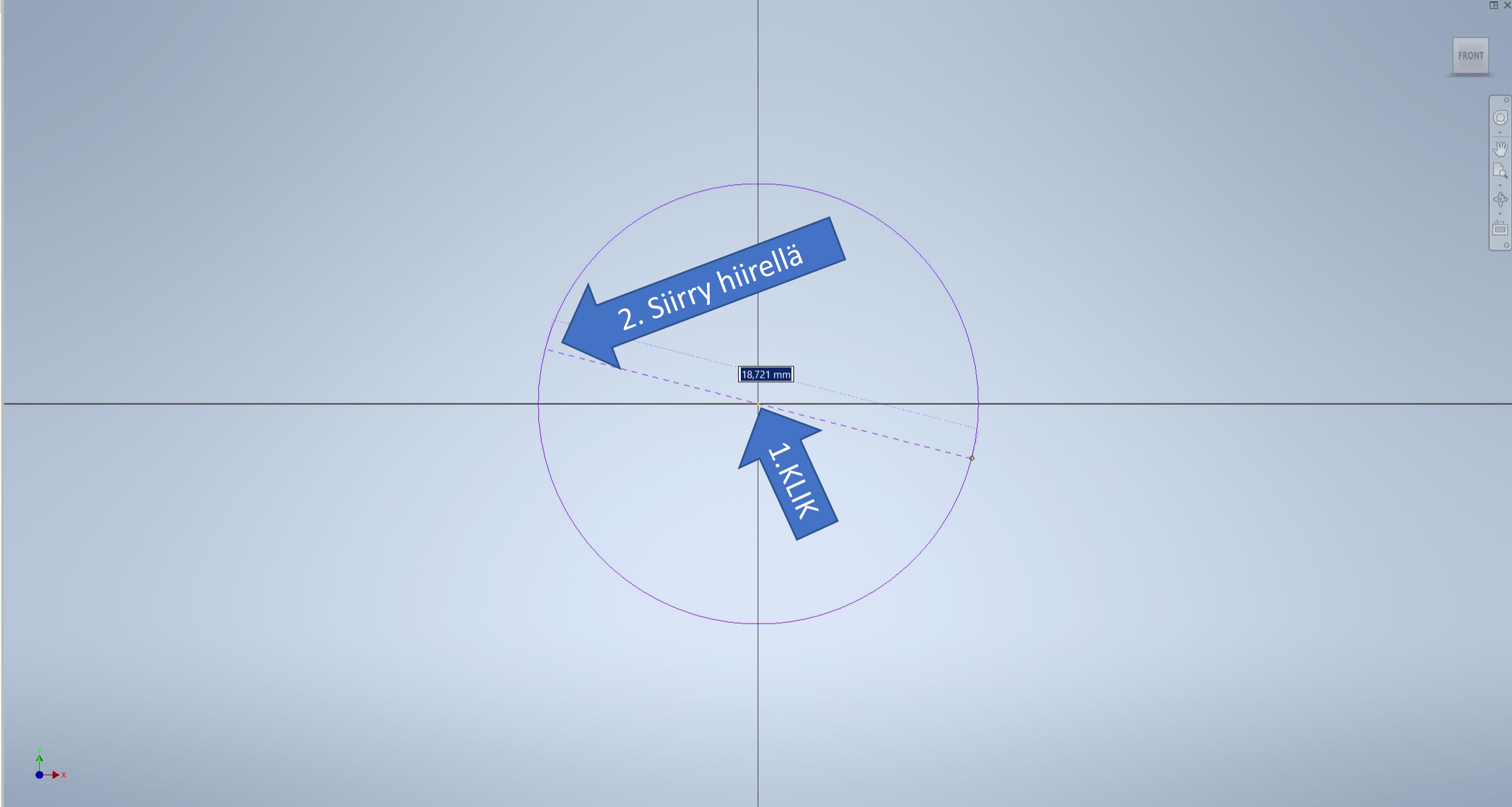
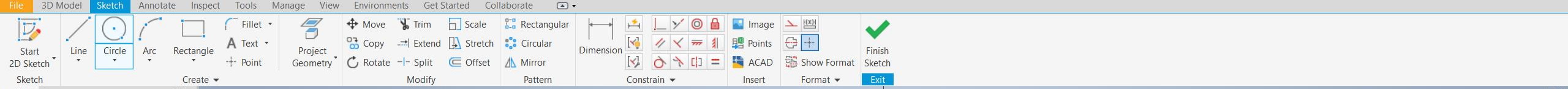


Center Point Circle (Ctrl+Shift+C)
Creates a circle using a center point and radius.

Specify the circle center point and then dynamically specify the radius with the cursor. You can use surrounding geometry to help with input.



Press F1 for more help



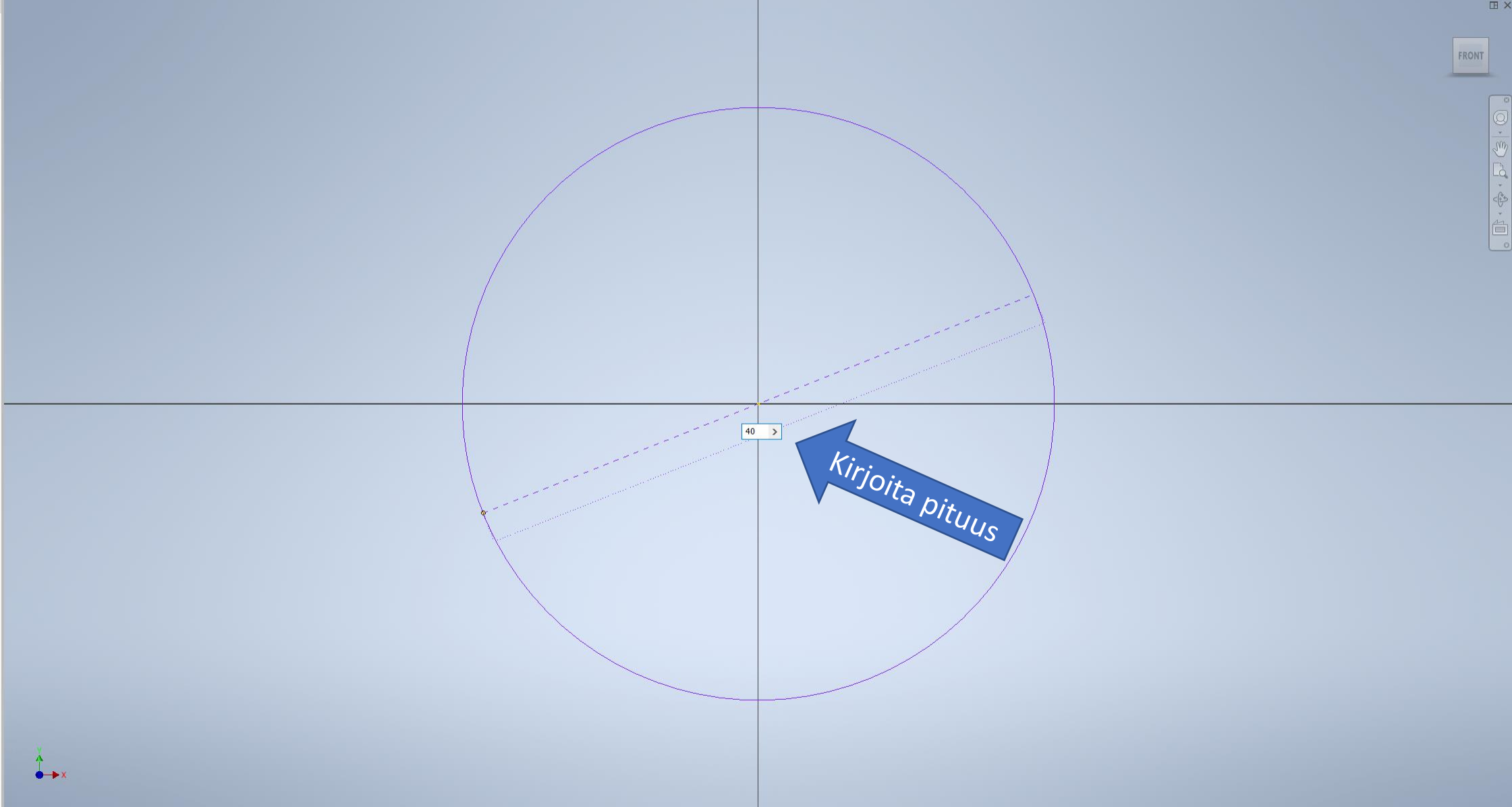
File 3D Model Sketch Annotate Inspect Tools Manage View Environments Get Started Collaborate

Start 2D Sketch Line Circle Arc Rectangle Fillet Text Point Project Geometry Move Trim Scale Rectangular Copy Extend Stretch Circular Rotate Split Offset Mirror Dimension Constrain Insert ACAD Show Format Format Finish Sketch Exit

Model x +

Part2

- View: Master
- Origin
- Sketch1
- End of Part



Start 2D Sketch

Line Circle Arc Rectangle

Project Geometry

Move Trim Scale Rectangular

Copy Extend Stretch Circular

Rotate Split Offset Mirror

Dimension

Constrain

Image Points ACAD

Show Format

Format

Finish Sketch

Exit



Model

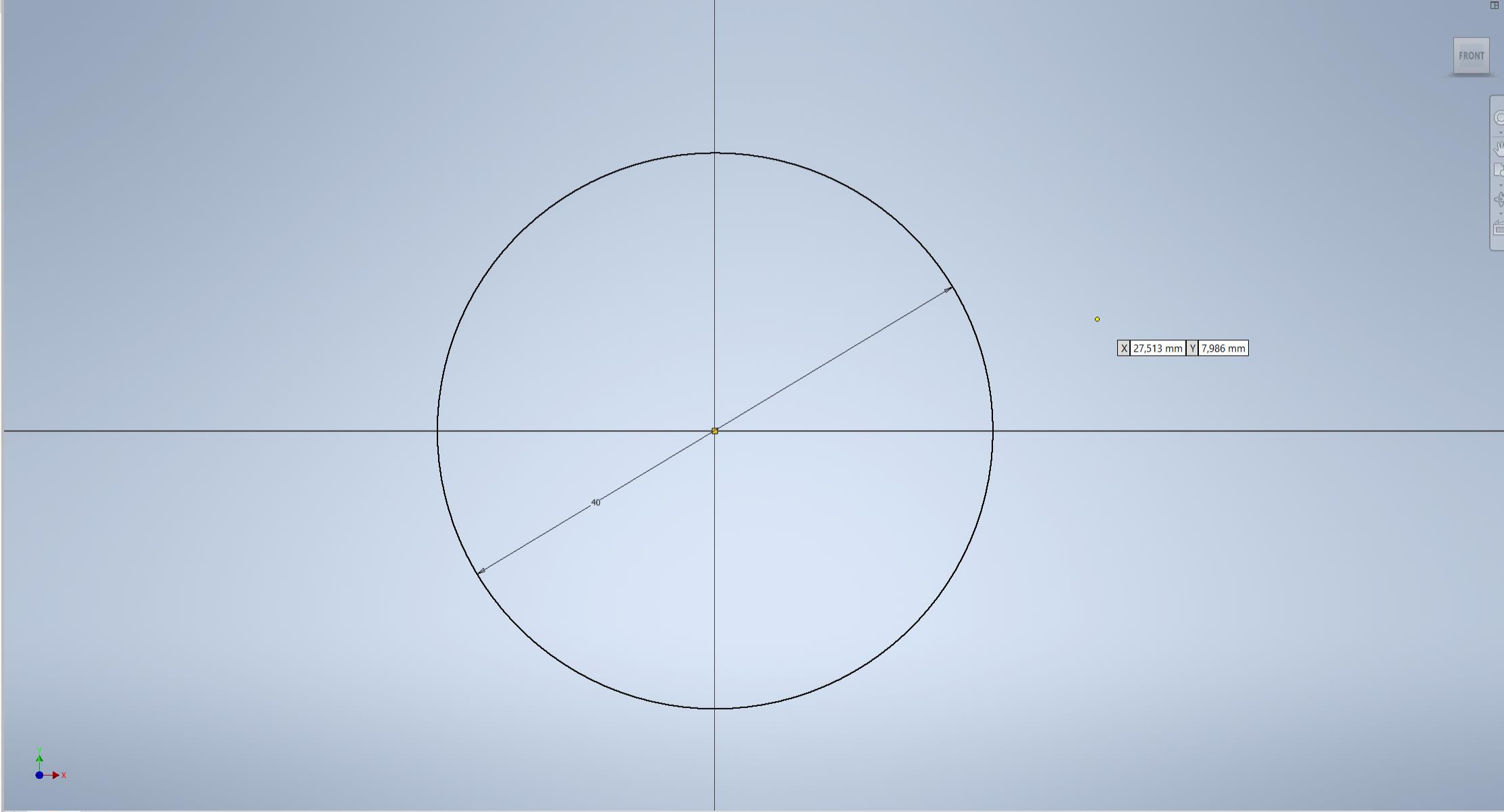
Part2

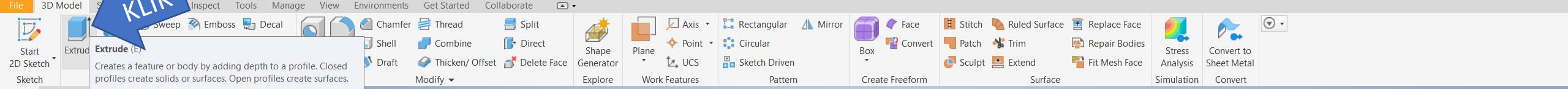
View: Master

Origin

Sketch1

End of Part

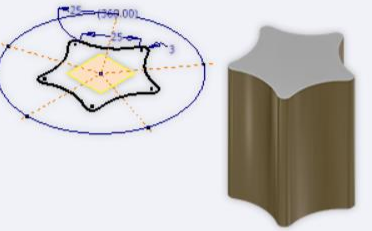




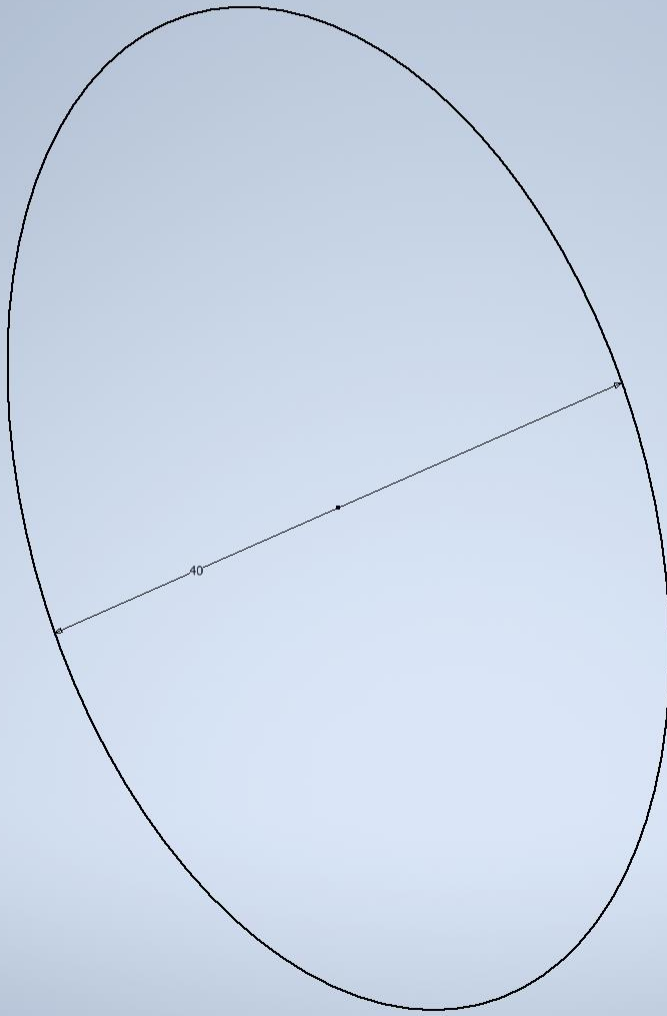
Start
2D Sketch
Sketch
Model × +
Part2
View: Master
Origin
Sketch1
End of Part

Extrude (E)
Creates a feature or body by adding depth to a profile. Closed profiles create solids or surfaces. Open profiles create surfaces.

Extruded features are building blocks for parts. Extrusions add or remove material from parts or remove material from assemblies. Extrusions can create new solid bodies in a multi-body part file. You specify the direction, depth, taper angle, and termination method for the extrusion.



Press F1 for more help



Model x +

Part2

- View: Master
- Origin
- Sketch1
- End of Part

Part2 x

Properties x +

Extrude > Sketch1

Input Geometry

Profiles 1 Profile

From 1 Sketch Plan

Behavior

Direction

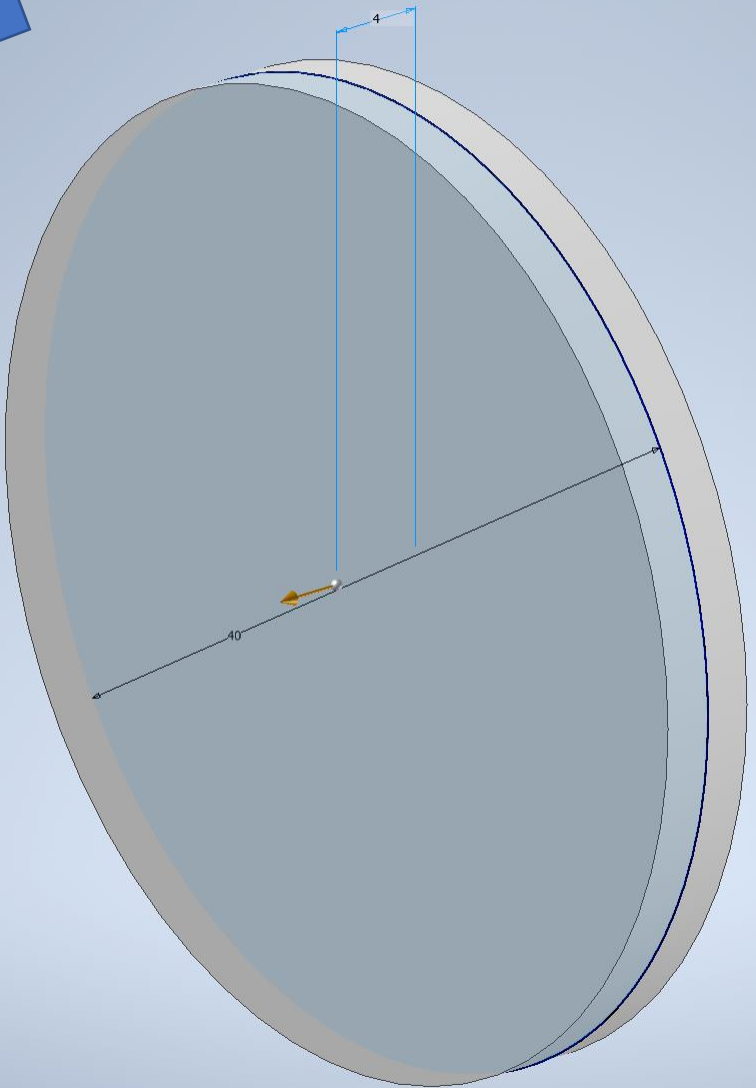
Distance A 4 Symmetric

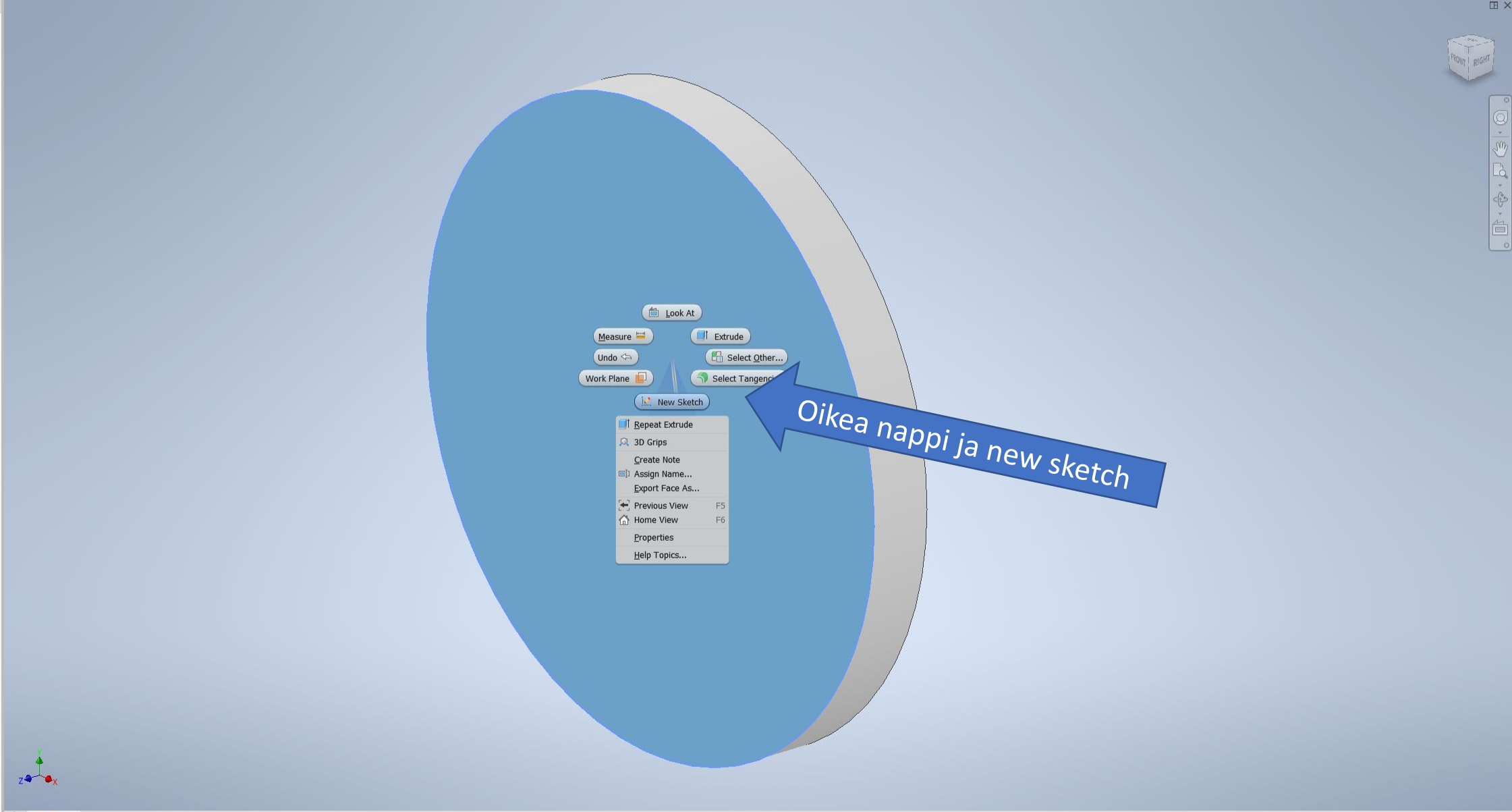
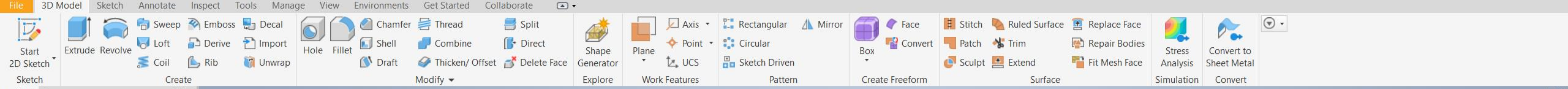
Advanced Properties

OK +

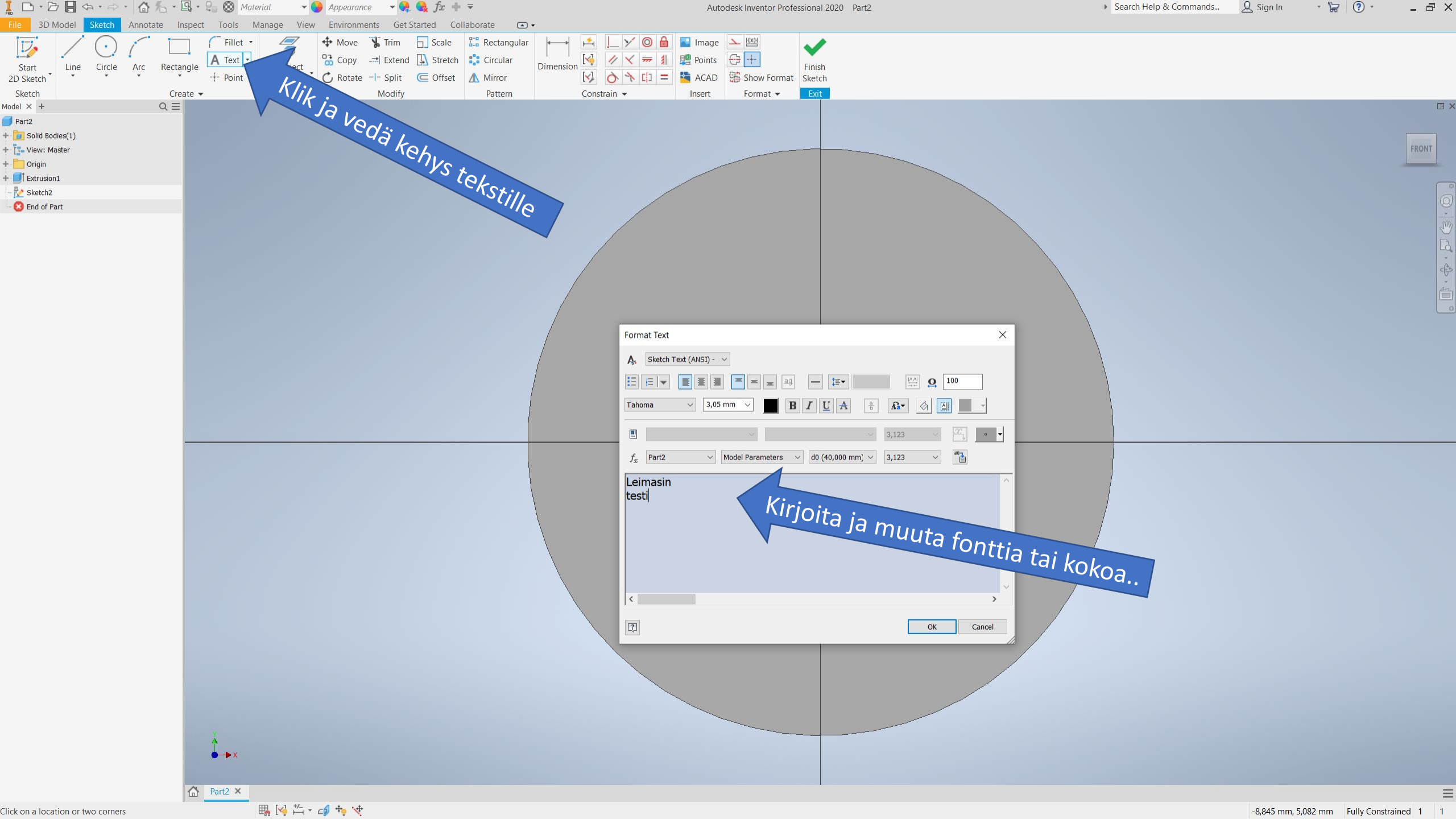
Valitse Symmetric

Anna pituus





Oikea nappi ja new sketch



Klik ja vedä kehys tekstille

Kirjoita ja muuta fonttia tai kokoa..

Format Text

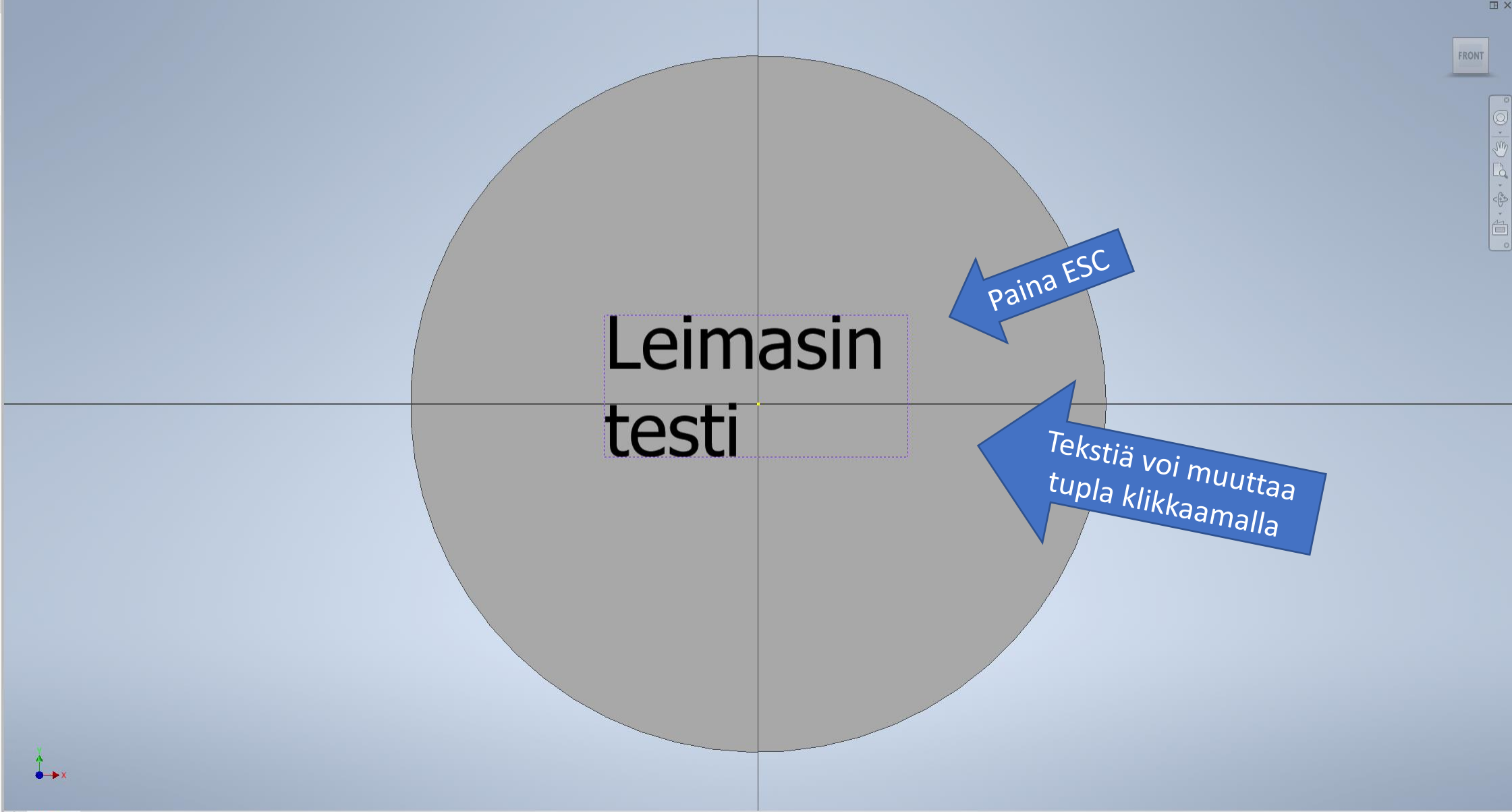
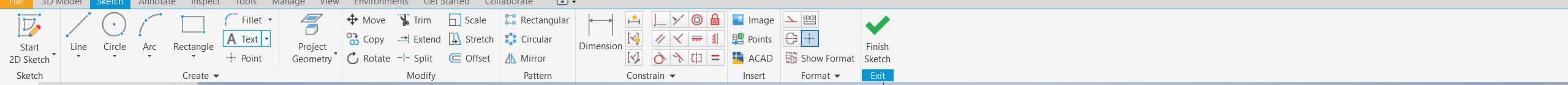
Sketch Text (ANSI) -

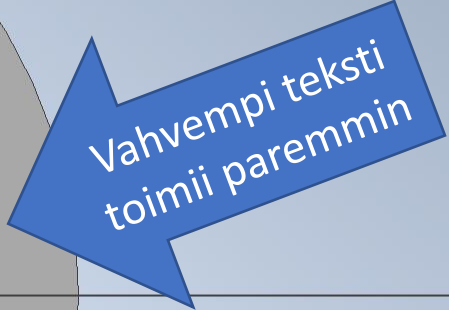
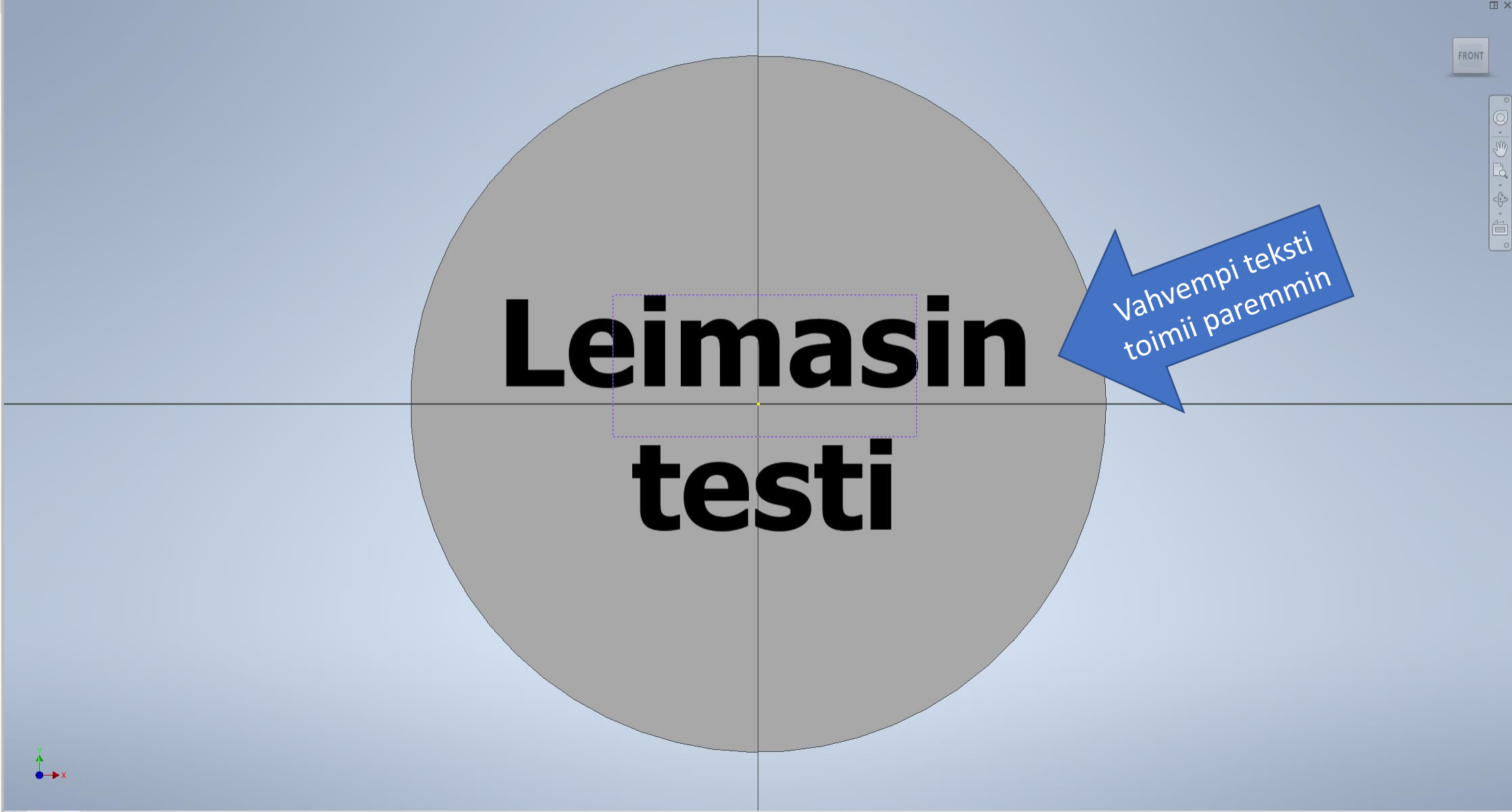
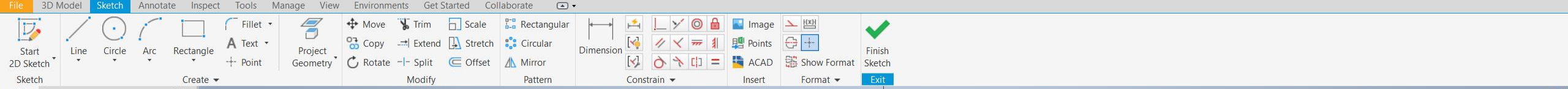
Tahoma 3,05 mm

Part2 Model Parameters d0 (40,000 mm) 3,123

Leimasin testi

OK Cancel





3D Model

Start 2D Sketch

Sketch

Model > +

- Part2
 - Solid Bodies(1)
 - View: Master
 - Origin
 - Extrusion1
 - Sketch2
 - End of Part

Properties > +

Extrude > Sketch2

Input Geometry

Profiles: 1 Profile

From: 1 Sketch Plane

Behavior

Direction: [Icon]

Distance A: 4,000 mm

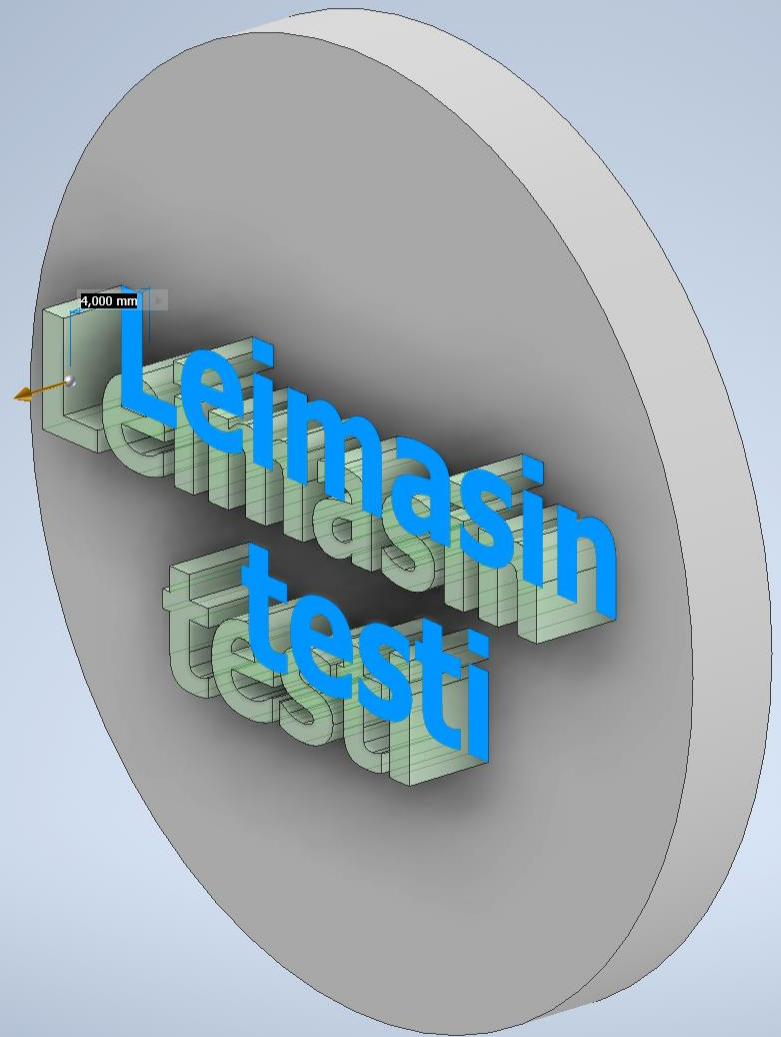
Output

Boolean: [Icon]

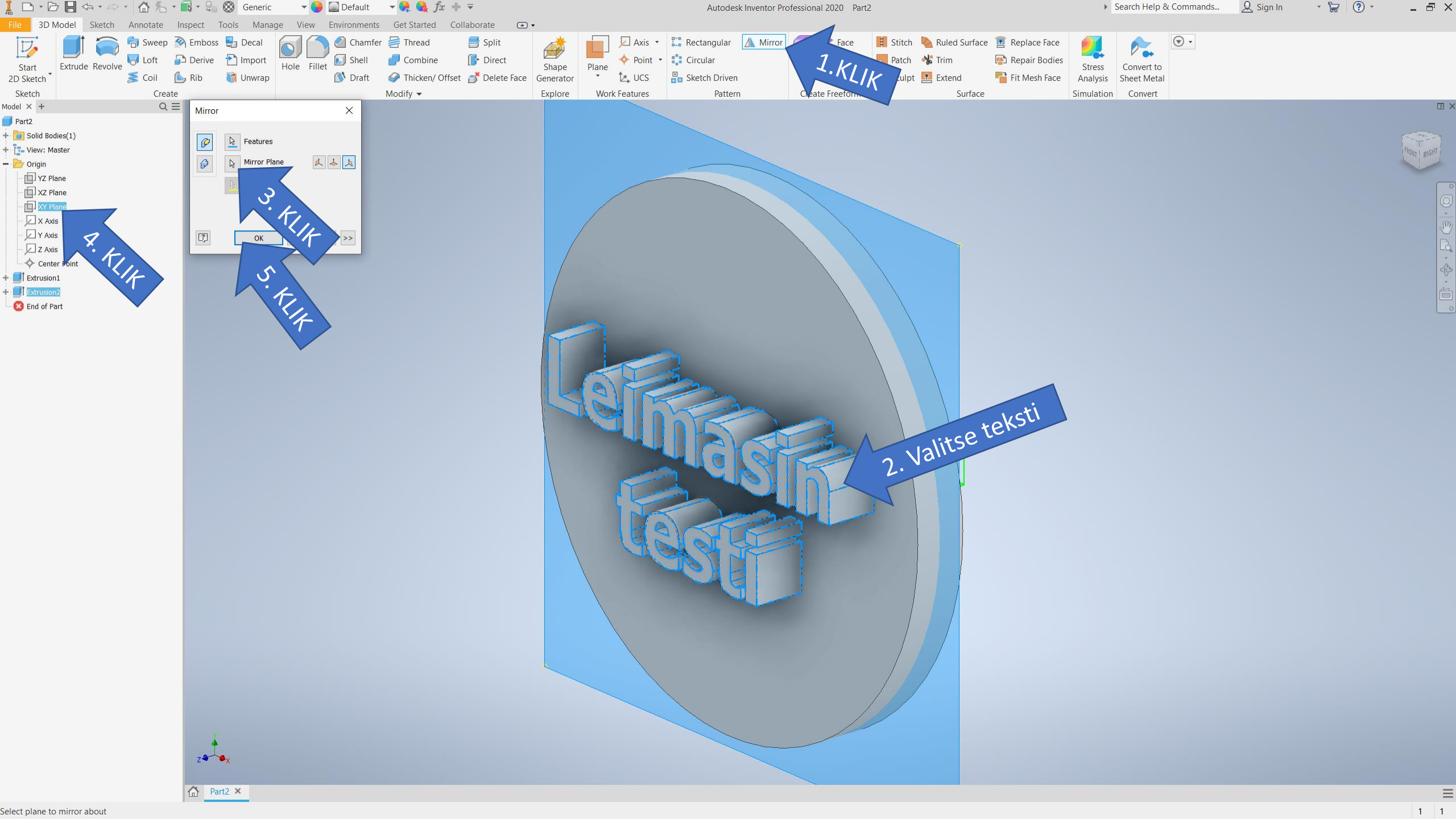
Advanced Properties

OK Cancel +

korkeus



KLIK



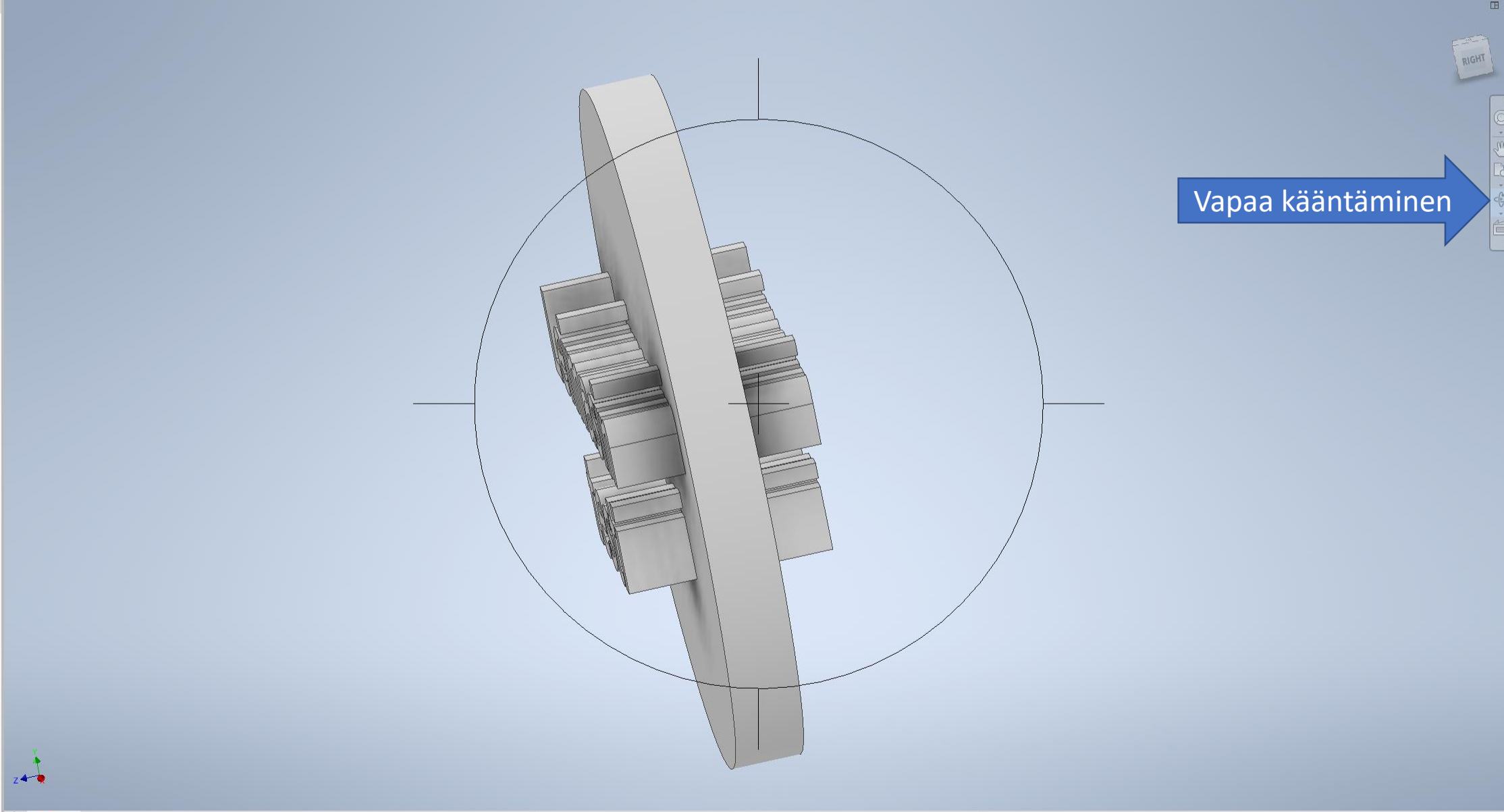
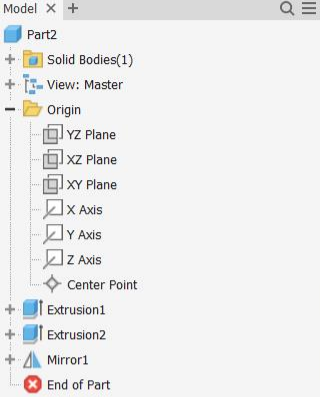
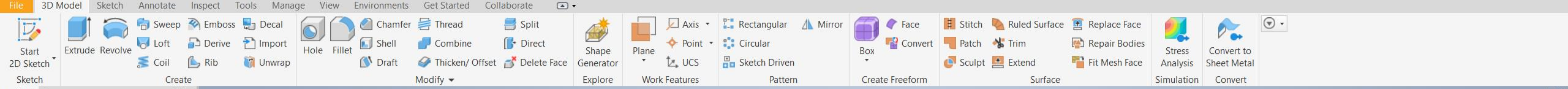
1. KLIK

2. Valitse teksti

3. KLIK

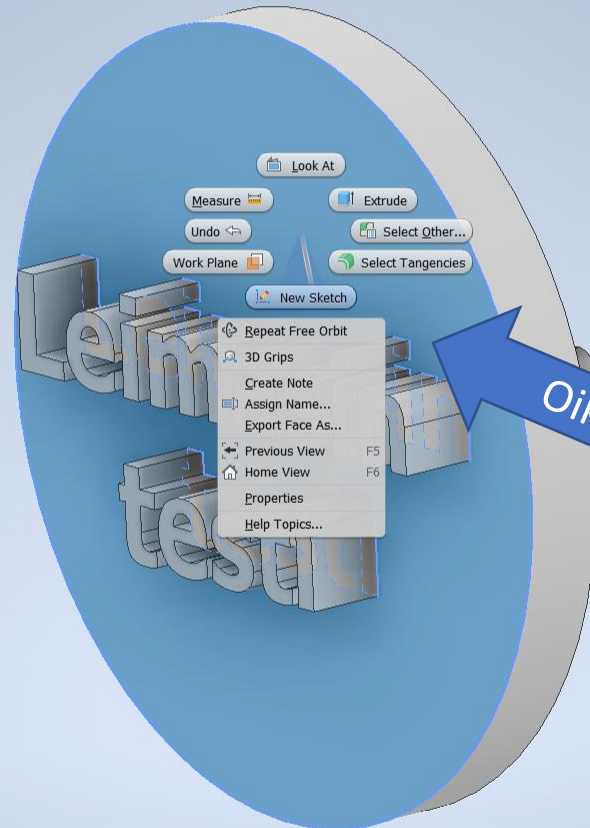
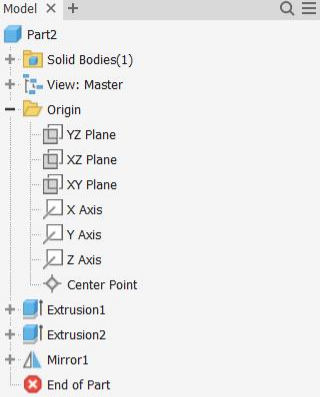
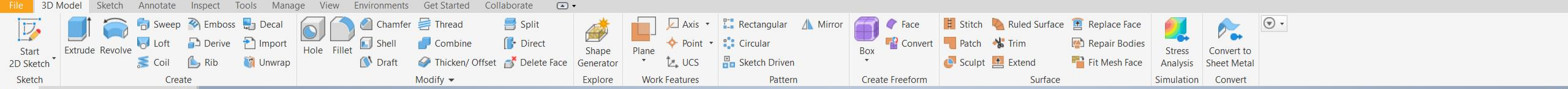
5. KLIK

4. KLIK

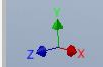


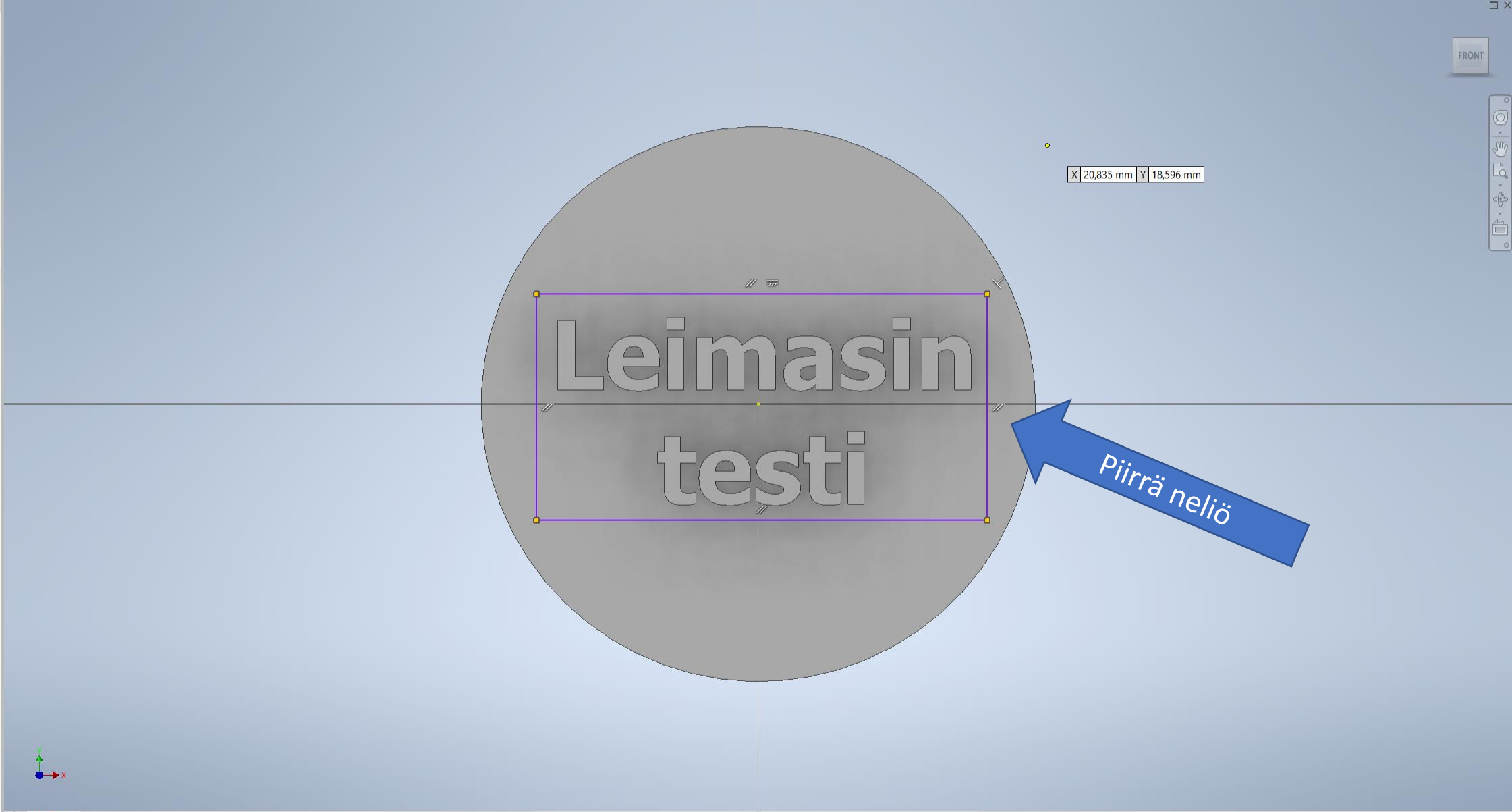
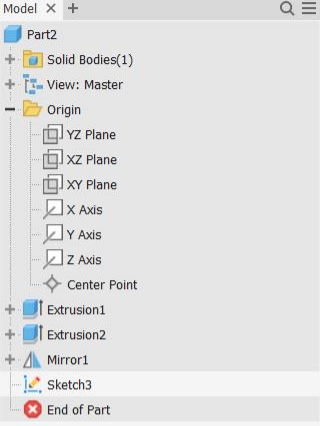
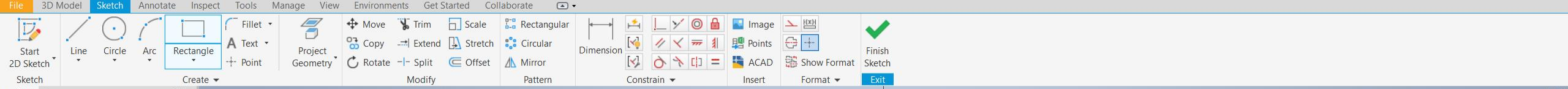
Vapaa kääntäminen

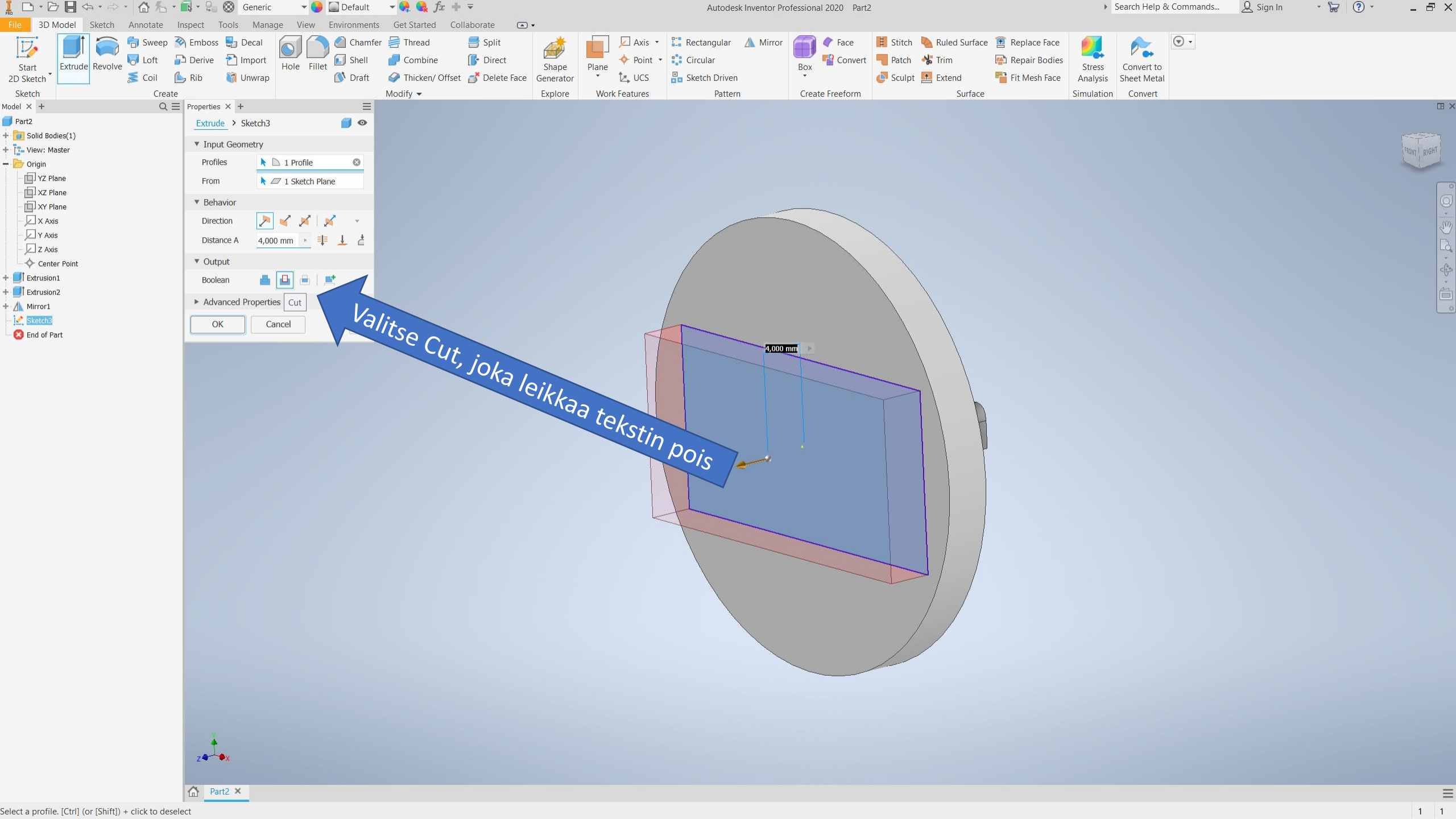




Oikealla napilla new sketch







Valitse Cut, joka leikkaa tekstin pois

Properties x +

Extrude > Sketch3

Input Geometry

Profiles 1 Profile

From 1 Sketch Plane

Behavior

Direction

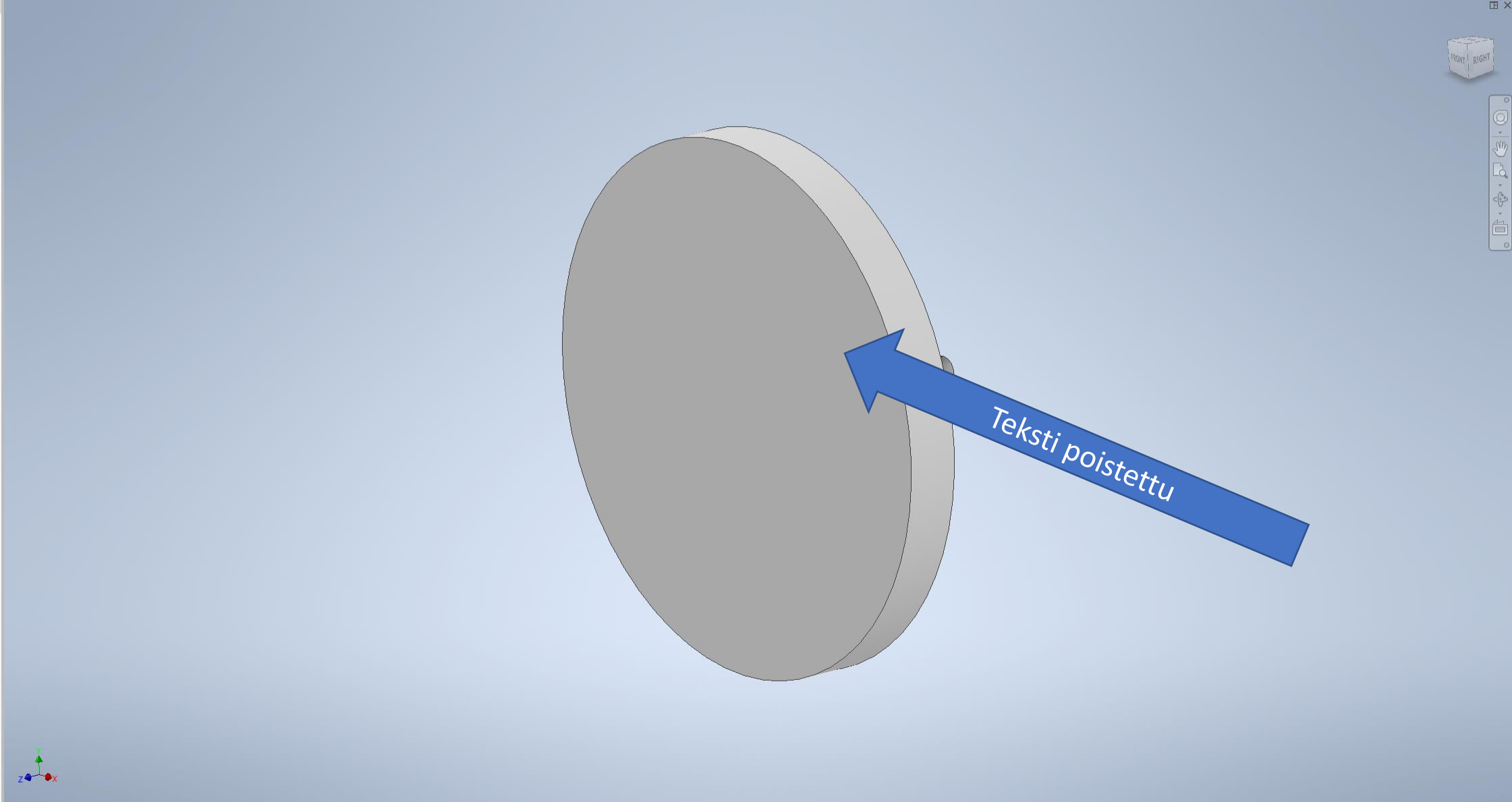
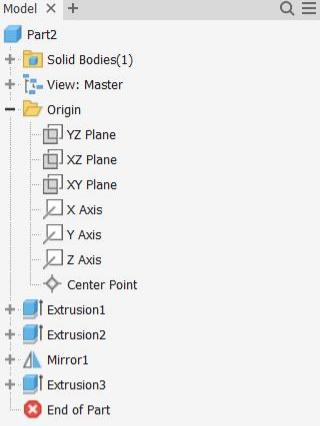
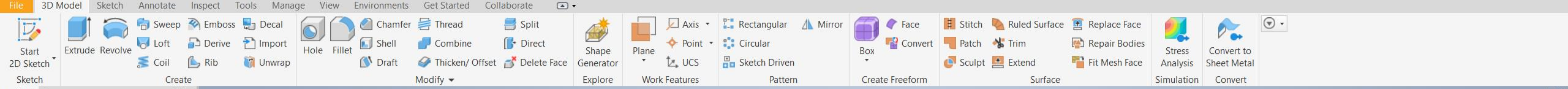
Distance A 4,000 mm

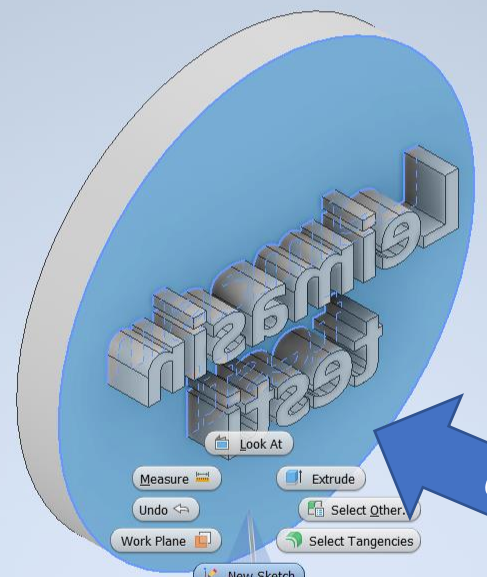
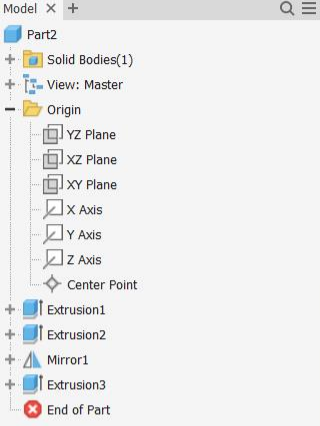
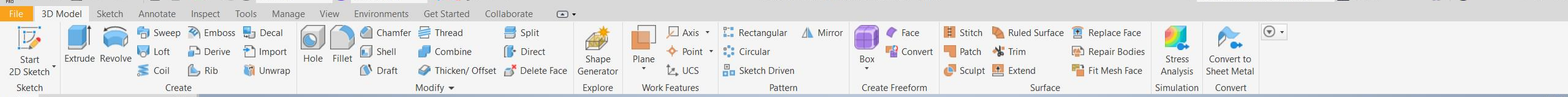
Output

Boolean

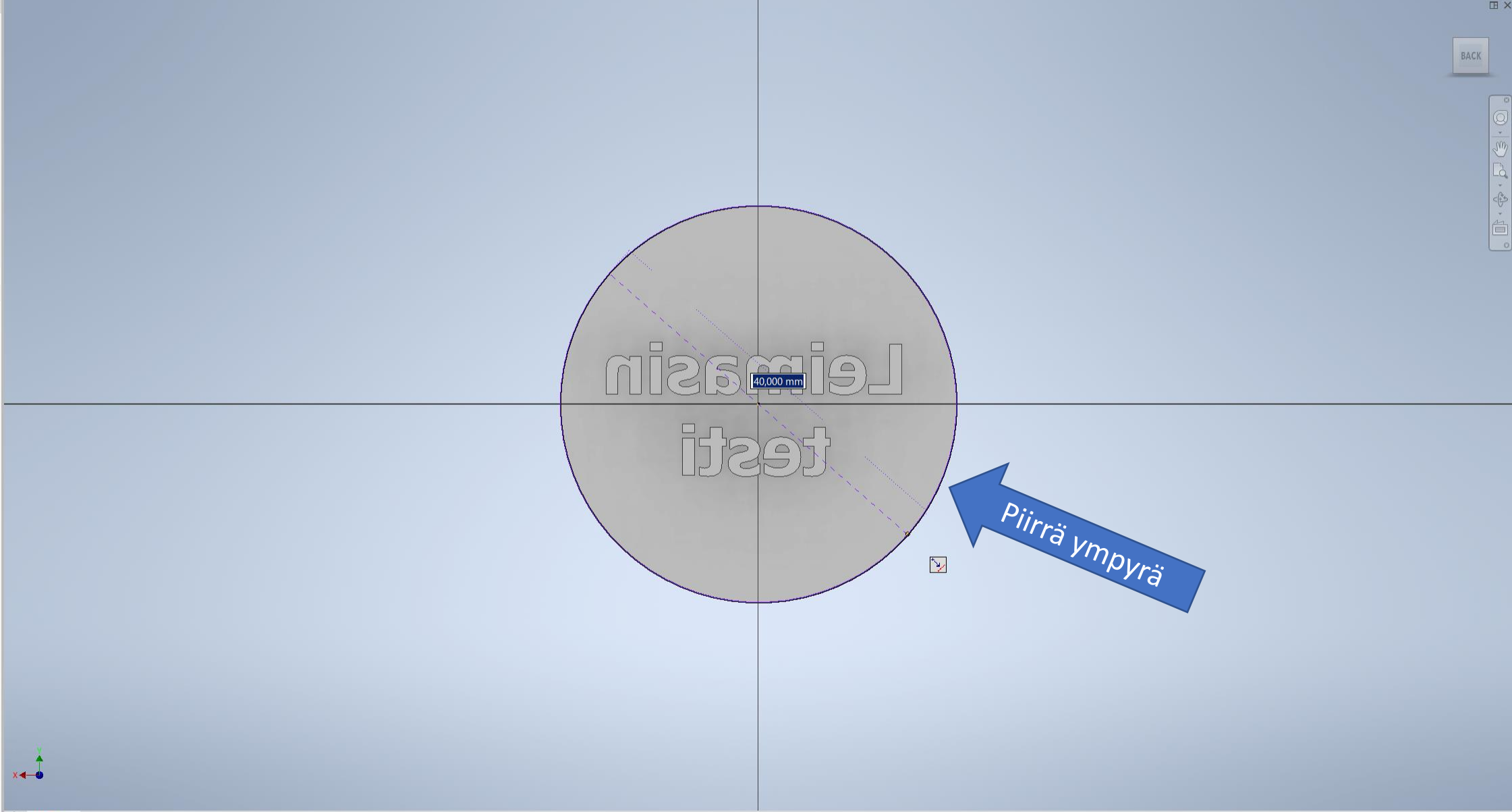
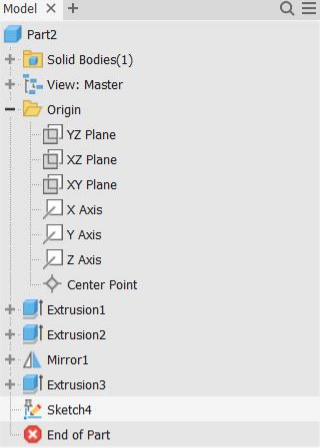
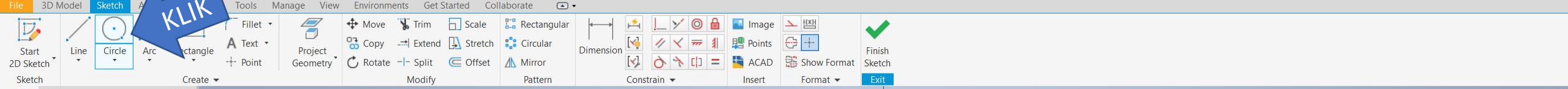
Advanced Properties Cut

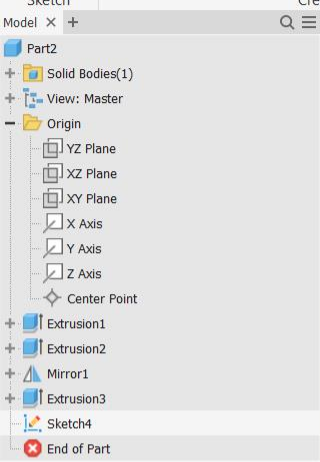
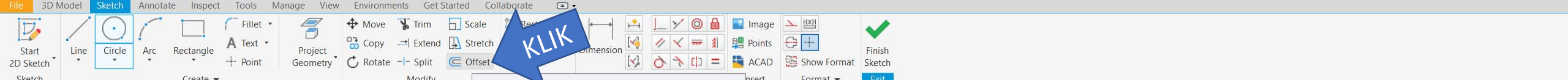
OK Cancel





Oikealla napilla new sketch

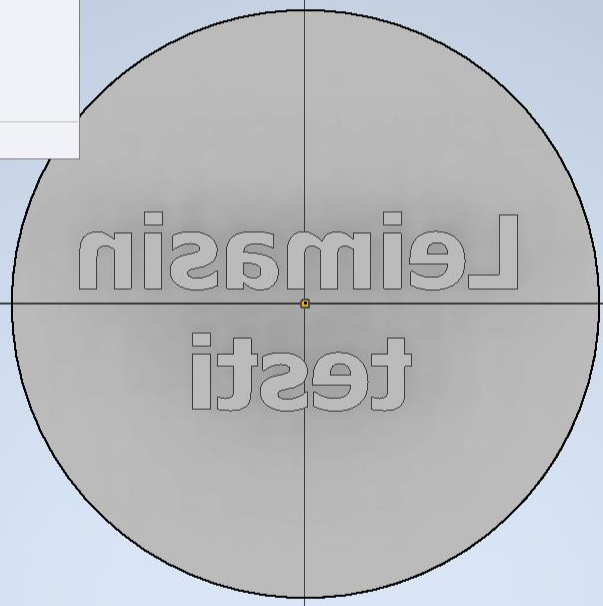


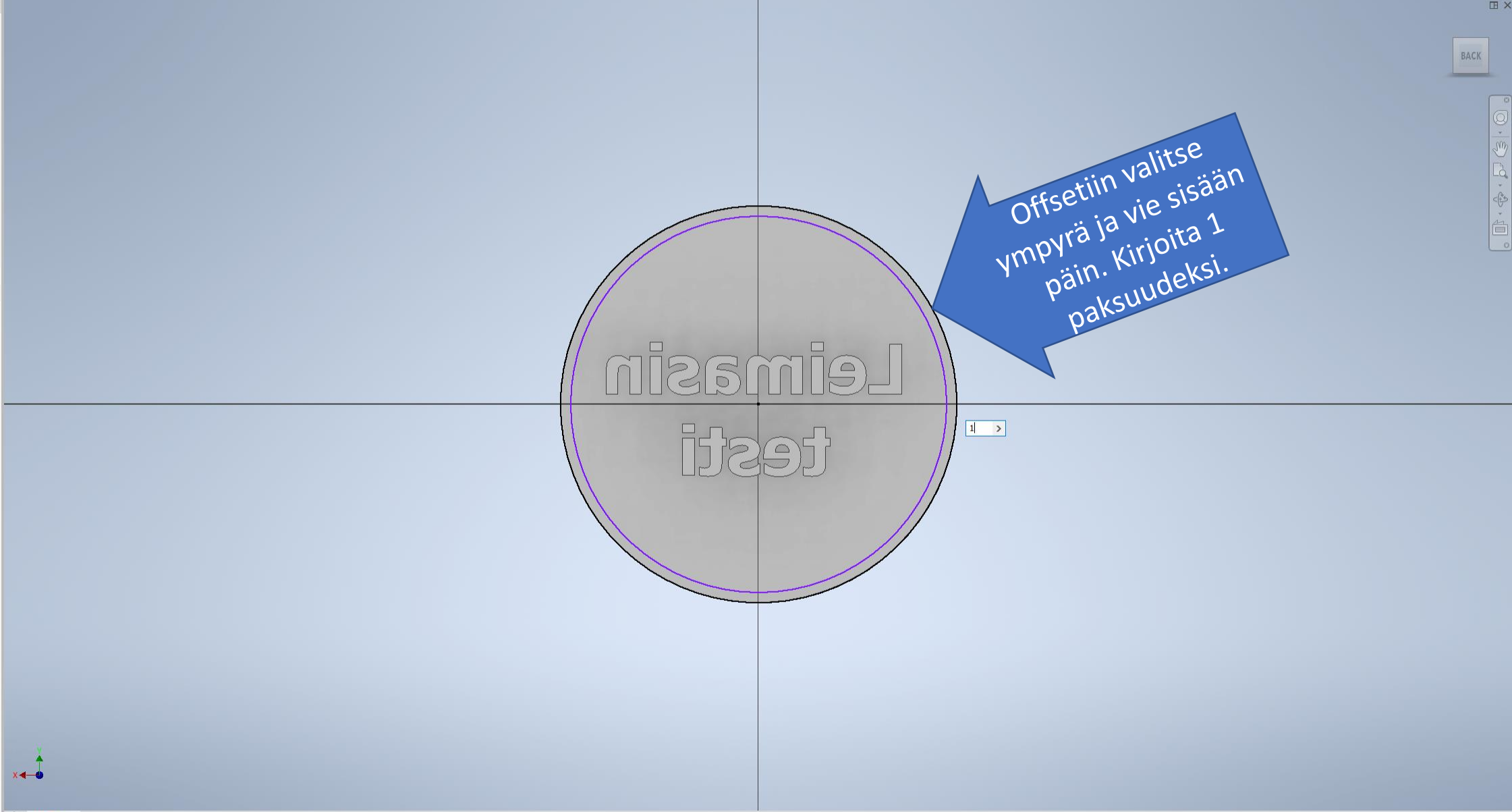
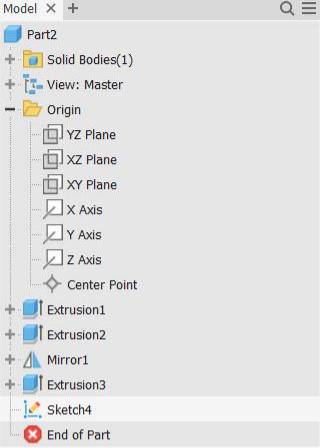
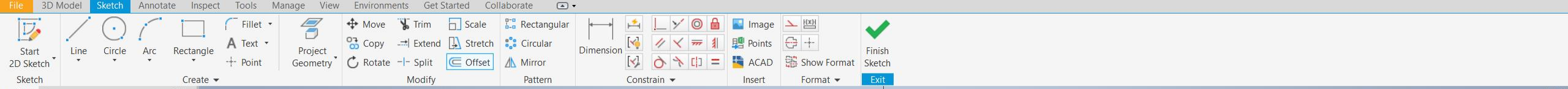


Offset (O)
 Duplicates selected sketch geometry and dynamically offsets it from the original.

By default, Offset constrains geometry selected as a loop equidistant from the original geometry. You can offset individual curves. Right-click and clear check marks on Loop Select and Constrain Offset. You can dimension an offset.

Press F1 for more help



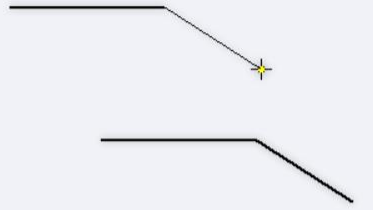


Start 2D Sketch
Sketch
Model x +
Part2
Solid Bodies(1)
View: Master
Origin
YZ Plane
XZ Plane
XY Plane
X Axis
Y Axis
Z Axis
Center Poi
Extrusion1
Extrusion2
Mirror1
Extrusion3
Sketch4
End of Part

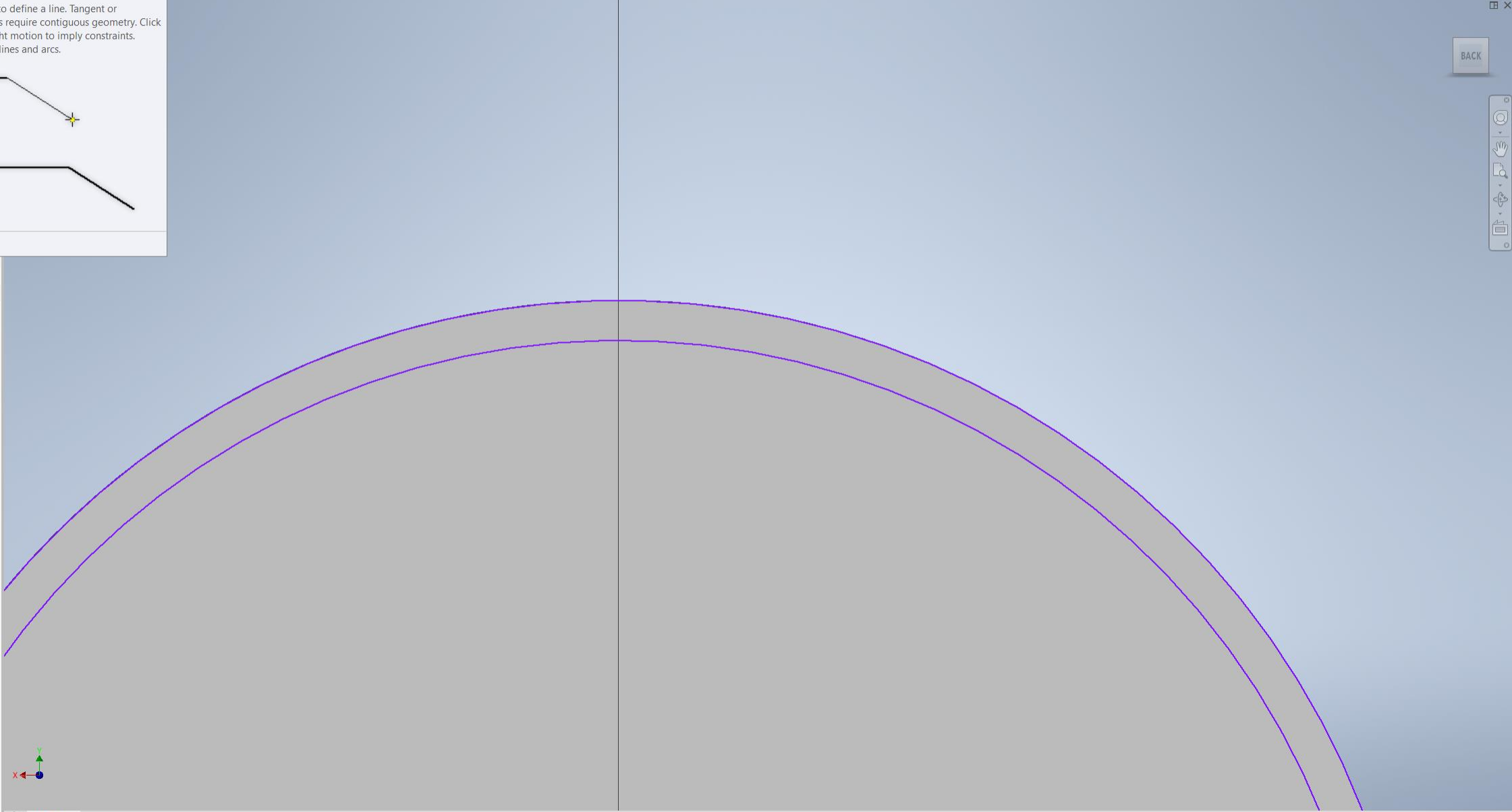
Move Trim Scale Rectangular
Copy Extend Stretch Circular
Rotate Split Offset Mirror
Modify Pattern
Dimension
Image Points ACAD
Constrain Insert Format
Finish Sketch
Exit

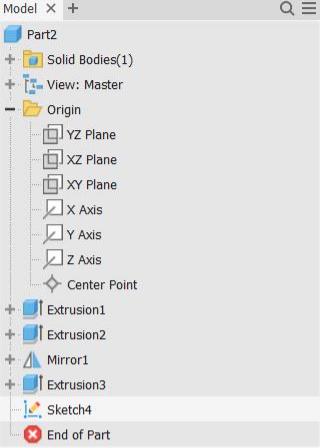
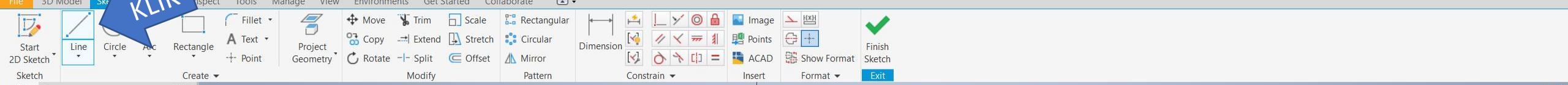
Line (L)
Creates lines and arcs.

Click a start and end point to define a line. Tangent or perpendicular lines and arcs require contiguous geometry. Click and drag in an arc or straight motion to imply constraints. Coincident constraints join lines and arcs.



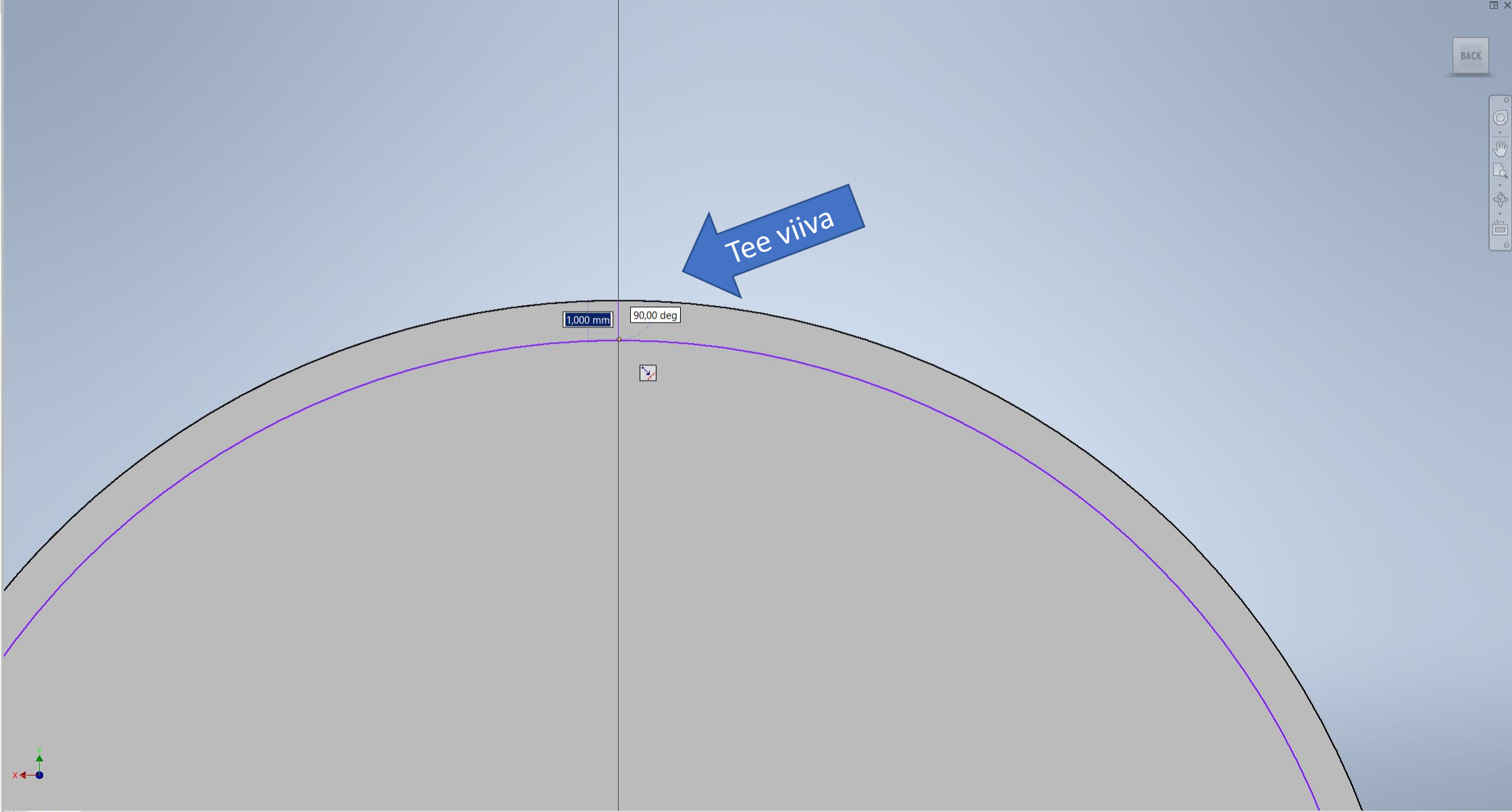
Press F1 for more help

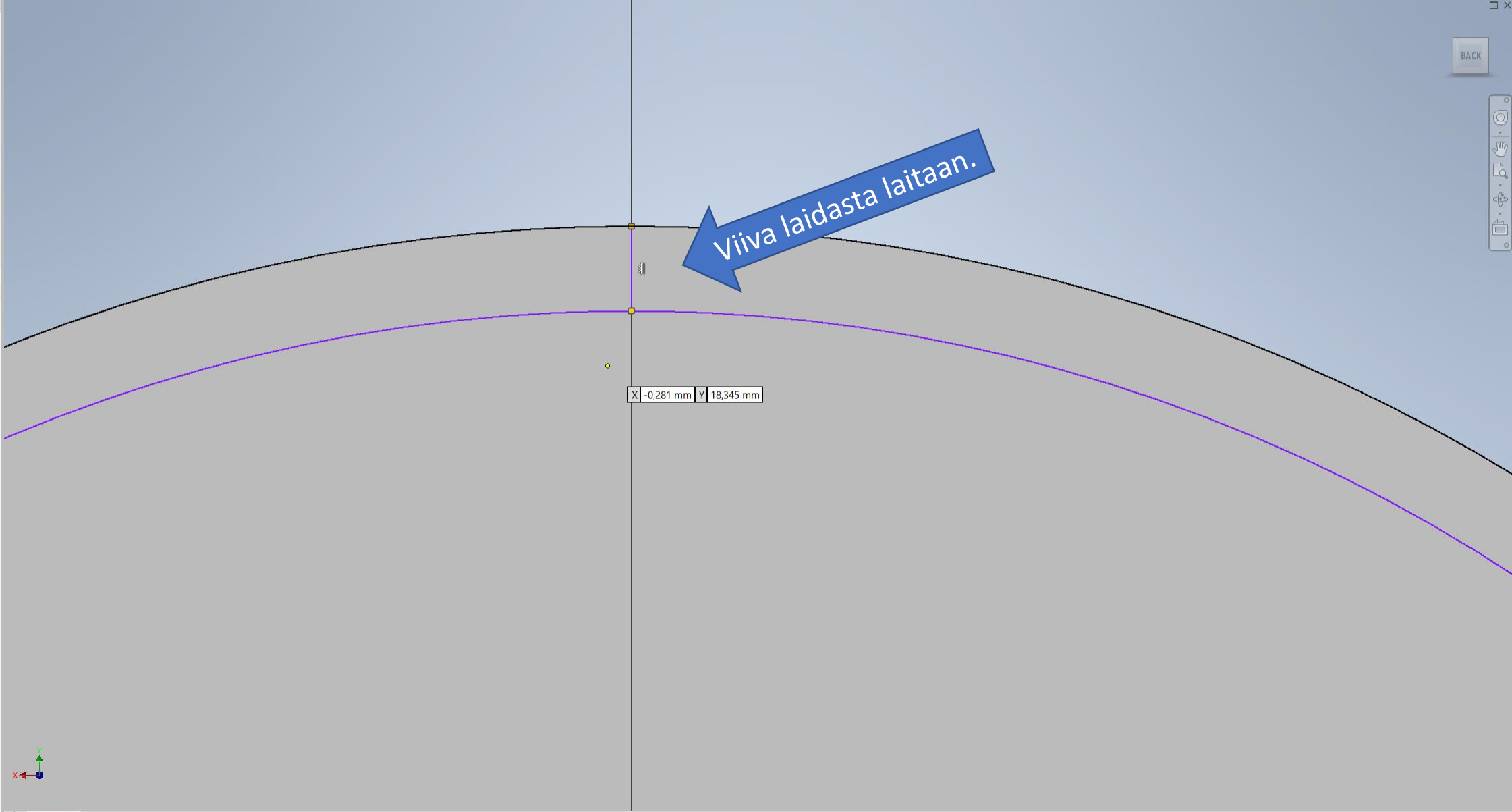
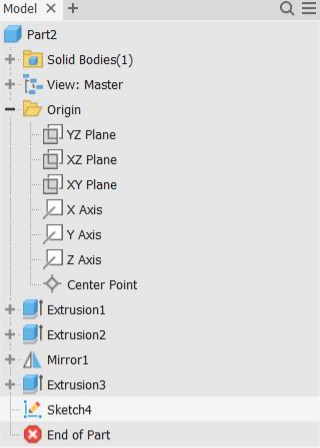
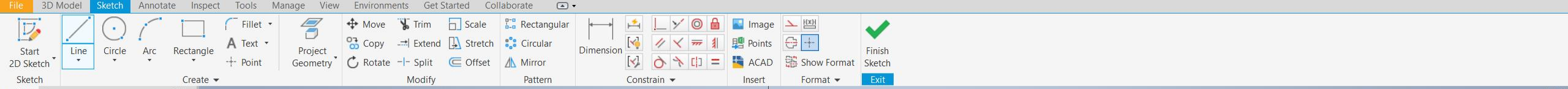




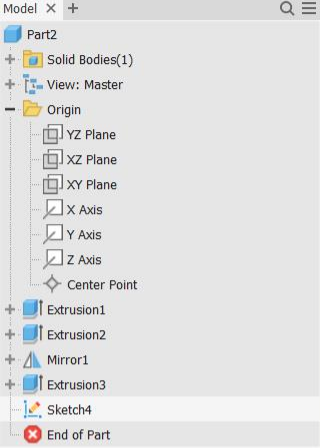
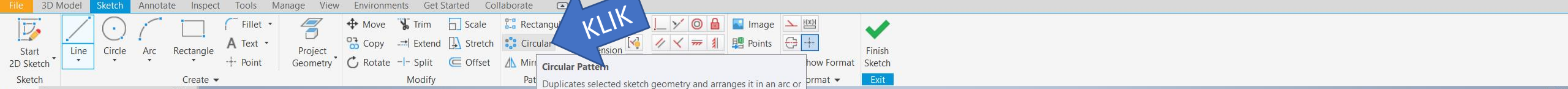
KLIK

Tee viiva





X: -0,281 mm Y: 18,345 mm



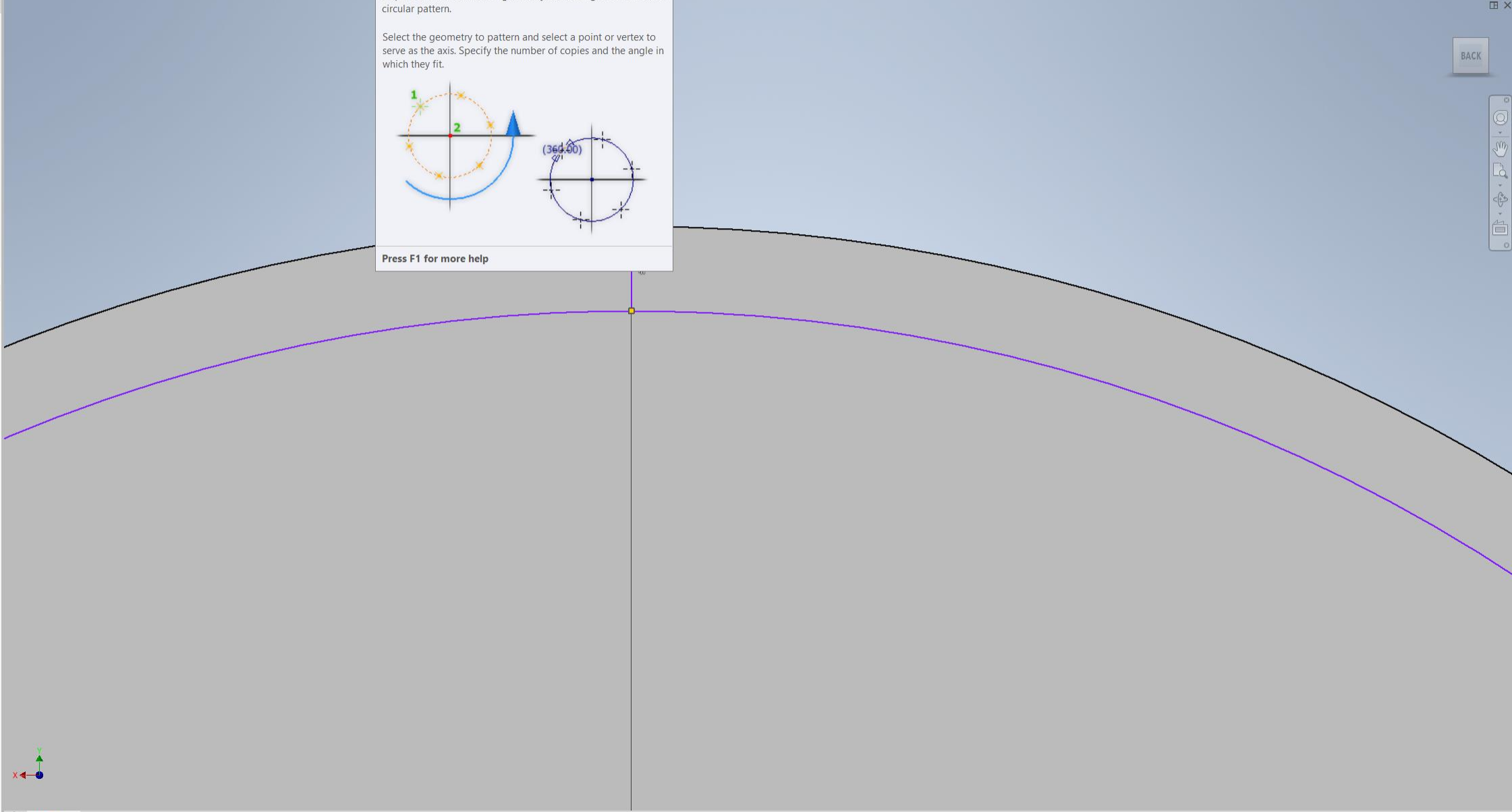
KLIK

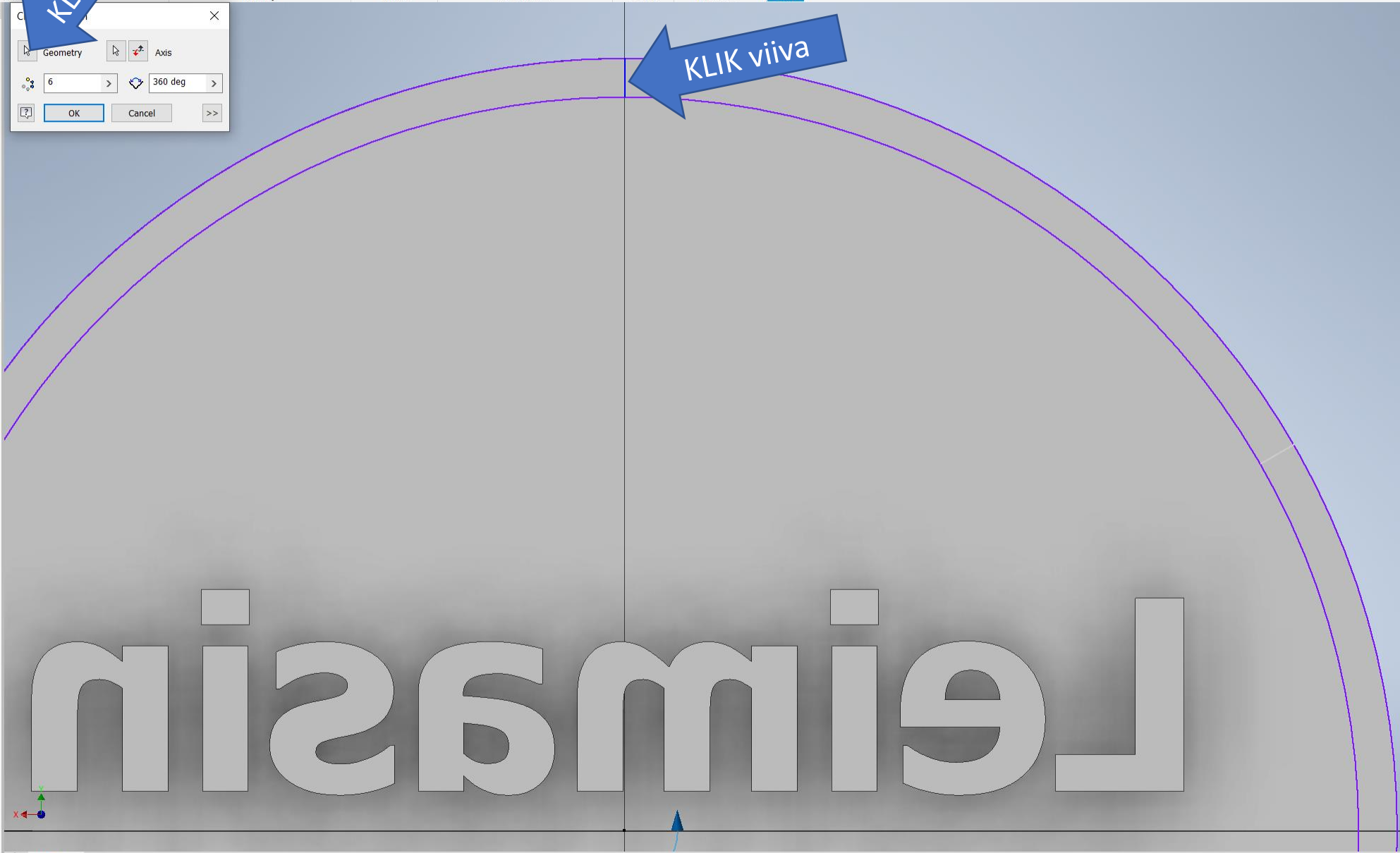
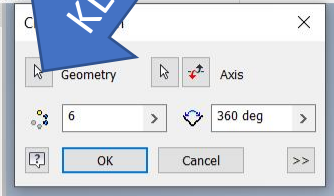
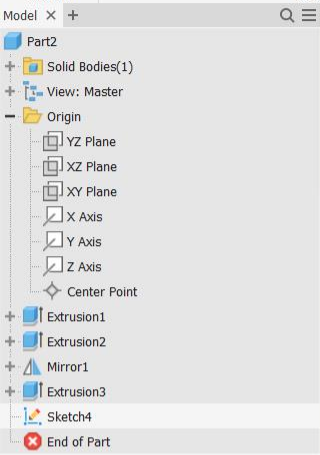
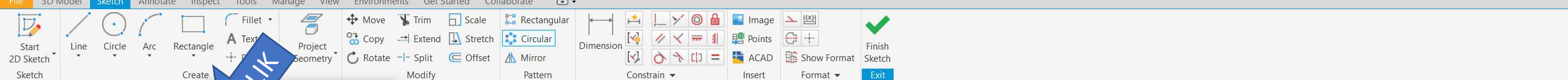
Circular Pattern

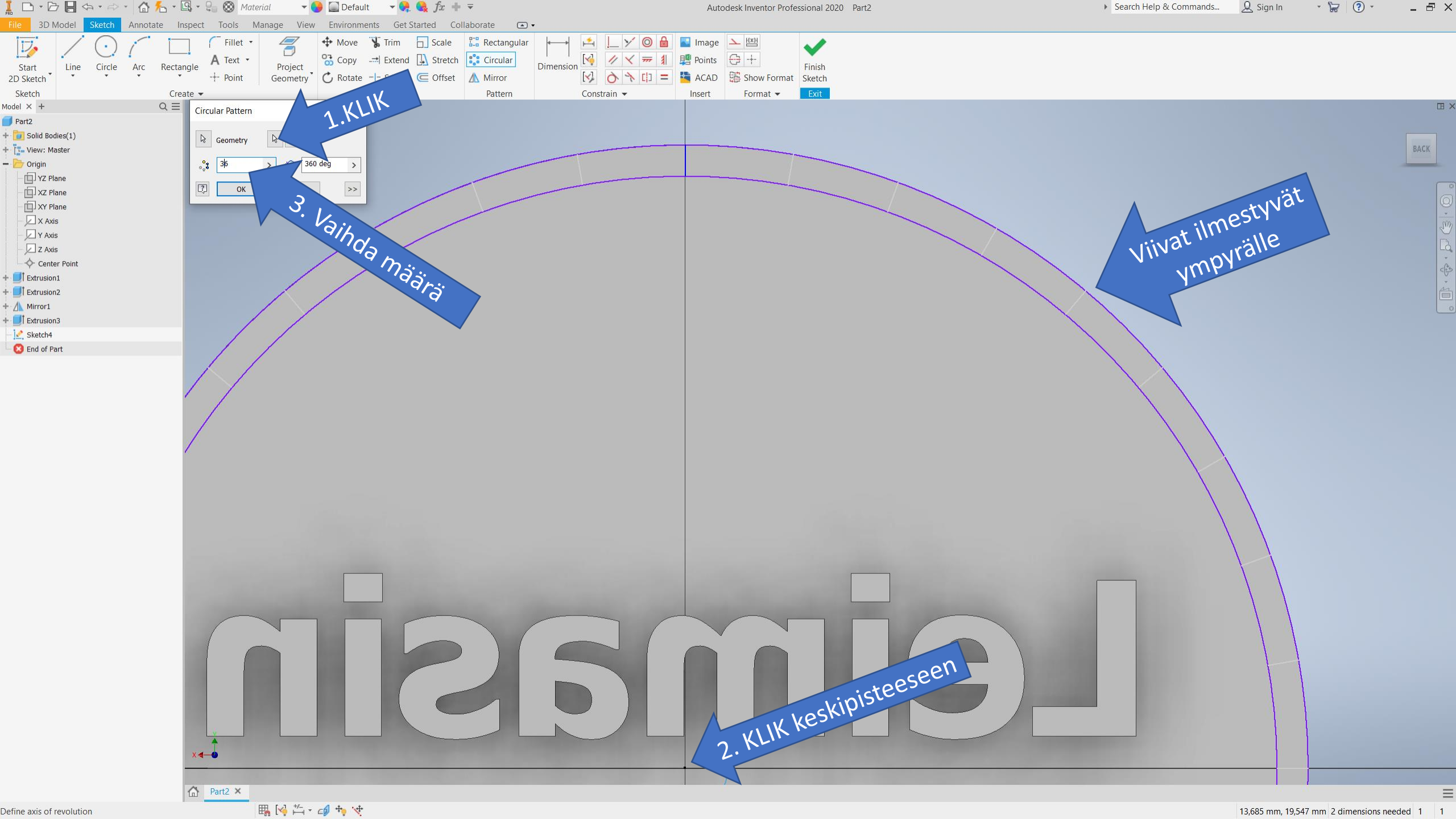
Duplicates selected sketch geometry and arranges it in an arc or circular pattern.

Select the geometry to pattern and select a point or vertex to serve as the axis. Specify the number of copies and the angle in which they fit.

Press F1 for more help







1. KLIK

3. Vaihda määrä

2. KLIK keskipisteeseen

Viivat ilmestyvät ympyrälle

Circular Pattern

Geometry

360 deg

OK

File 3D Model Sketch Annotate Inspect Tools Manage View Environments Get

Start 2D Sketch

Line Circle Arc Rectangle

Fillet Text Point

Project Geometry

Move Trim Copy Rotate

Model x +

Part2

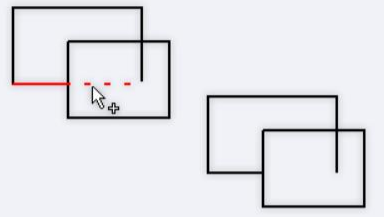
- Solid Bodies(1)
- View: Master
- Origin
 - YZ Plane
 - XZ Plane
 - XY Plane
 - X Axis
 - Y Axis
 - Z Axis
 - Center Point
- Extrusion1
- Extrusion2
- Mirror1
- Extrusion3
- Sketch4
- End of Part

KLIK

Trim (X)

Trims a curve to the nearest intersecting curves or selected boundary geometry.

Pause the cursor over the curve to preview the trim. Click to accept. Creates a coincident constraint between the endpoint of the trimmed curve and the boundary curves.

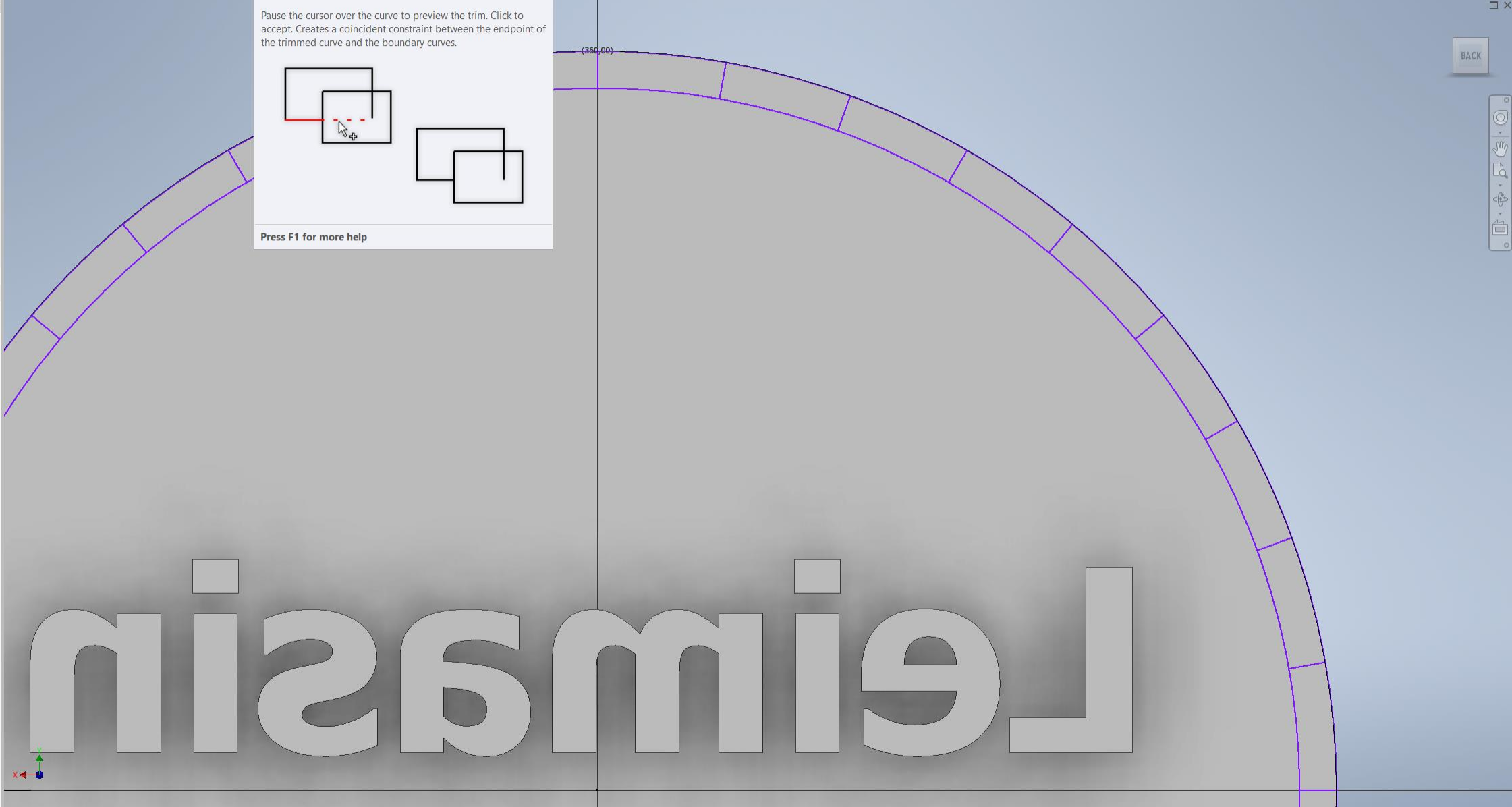


Press F1 for more help

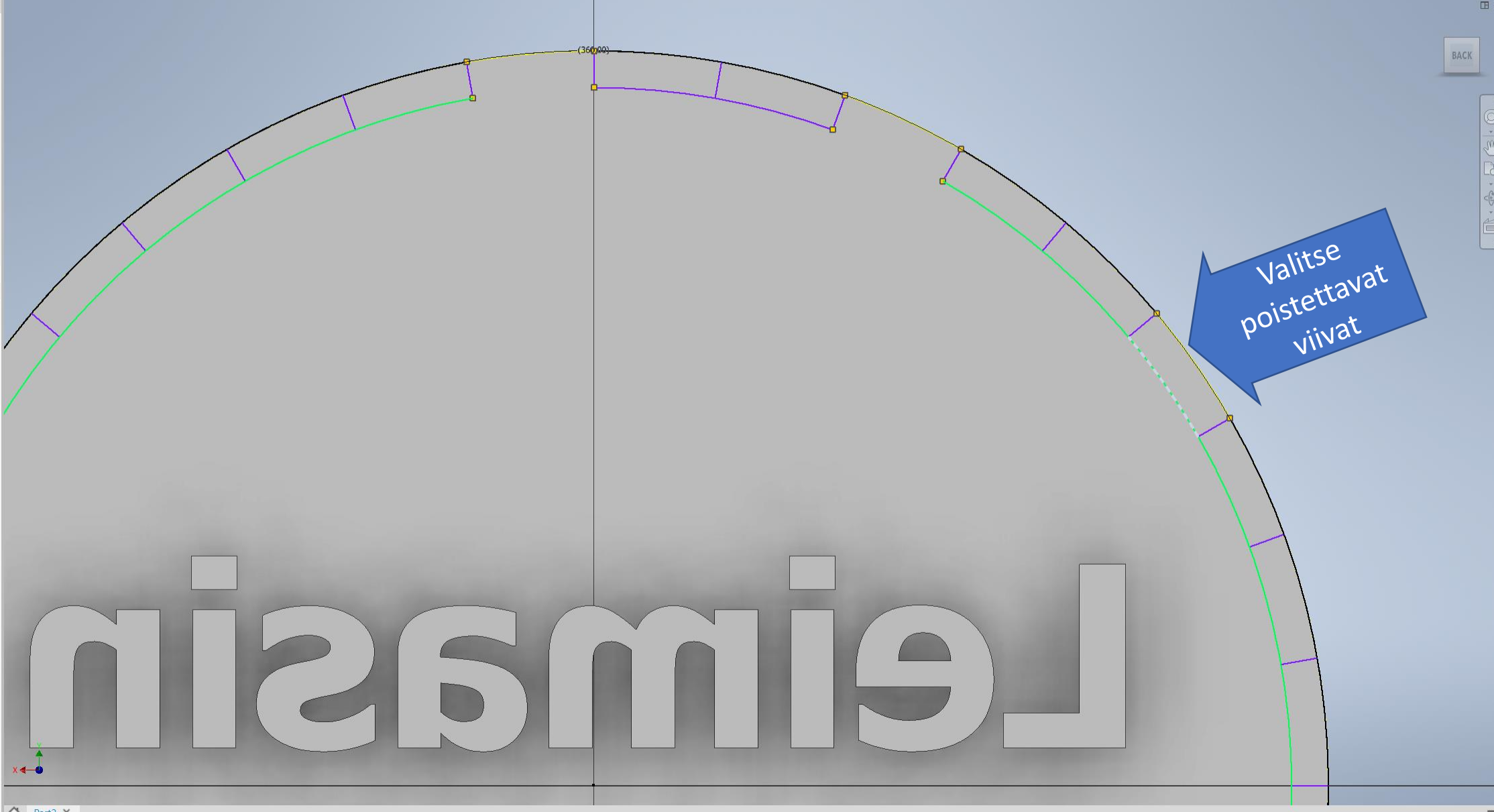
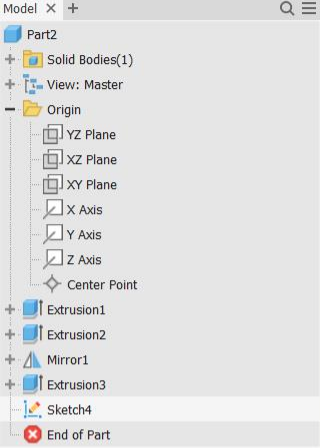
Image Points ACAD Show Format

Insert Format

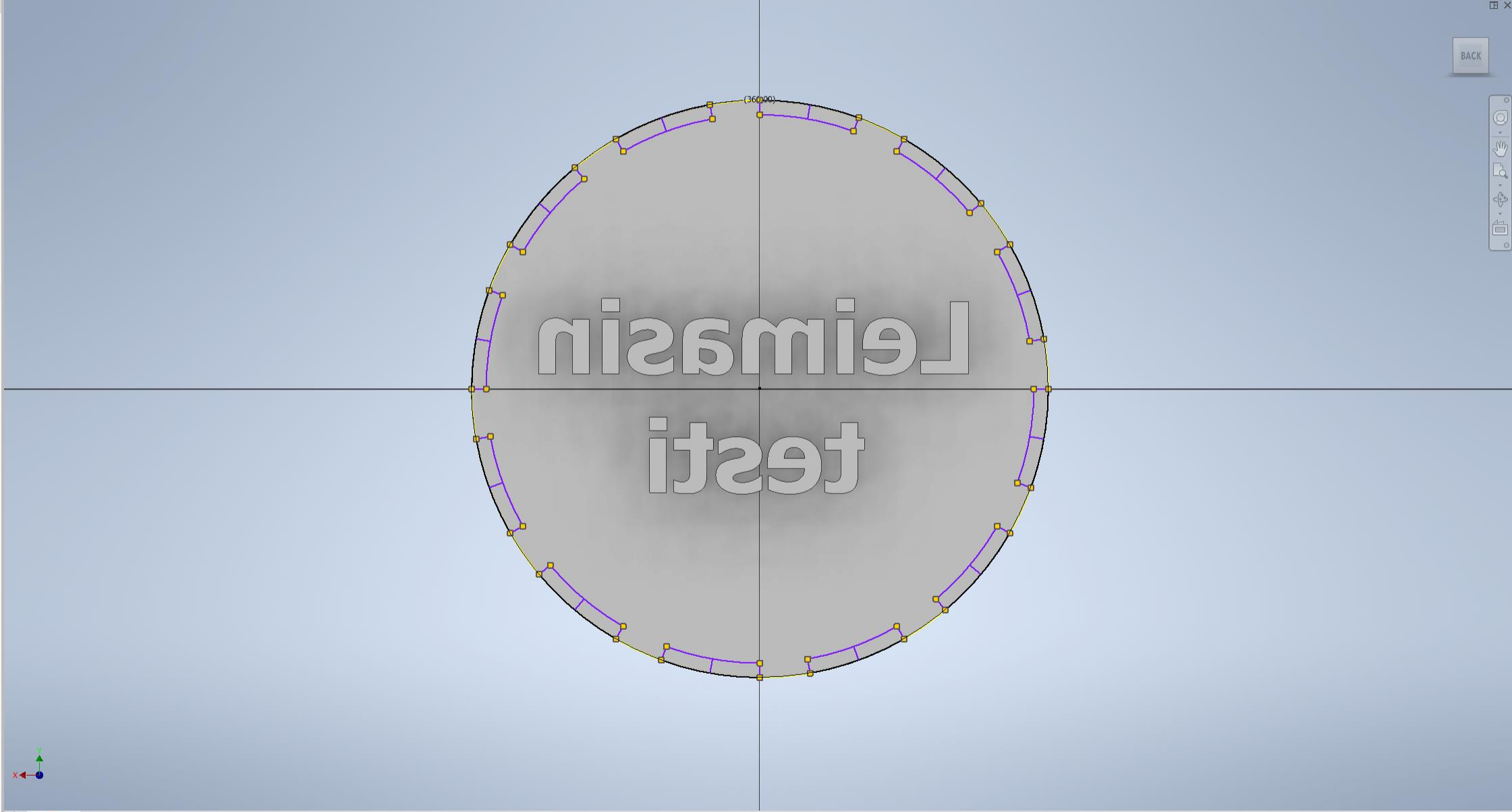
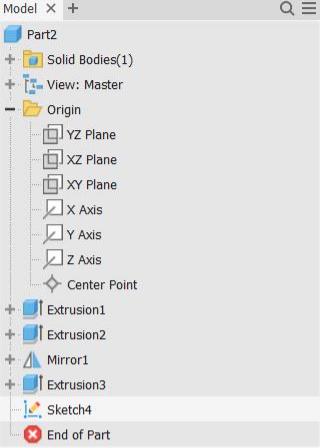
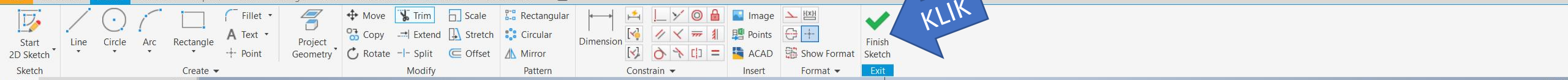
Finish Sketch Exit



Learn



LEIMIN



Model > +

- Part2
 - Solid Bodies(1)
 - View: Master
 - Origin
 - YZ Plane
 - XZ Plane
 - XY Plane
 - X Axis
 - Y Axis
 - Z Axis
 - Center Point
 - Extrusion1
 - Extrusion2
 - Mirror1
 - Extrusion3
 - Sketch4
 - End of Part

Properties > +

Extrude > Sketch4

Input Geometry

Profiles: 8 Profiles

From: 1 Sketch Plane

Behavior

Direction: [Icons]

Distance A: 4,000 mm

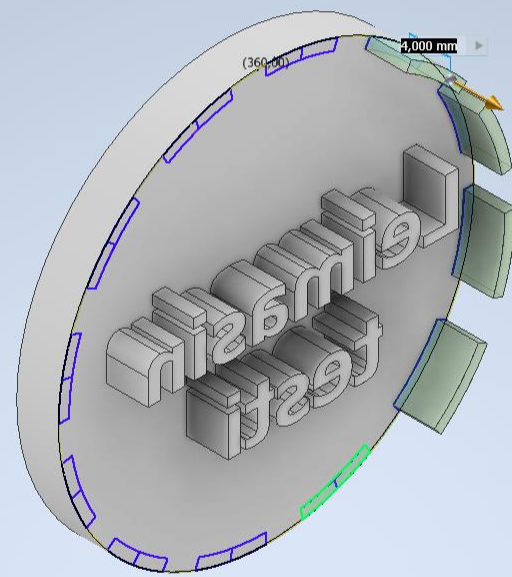
Output

Boolean: [Icons]

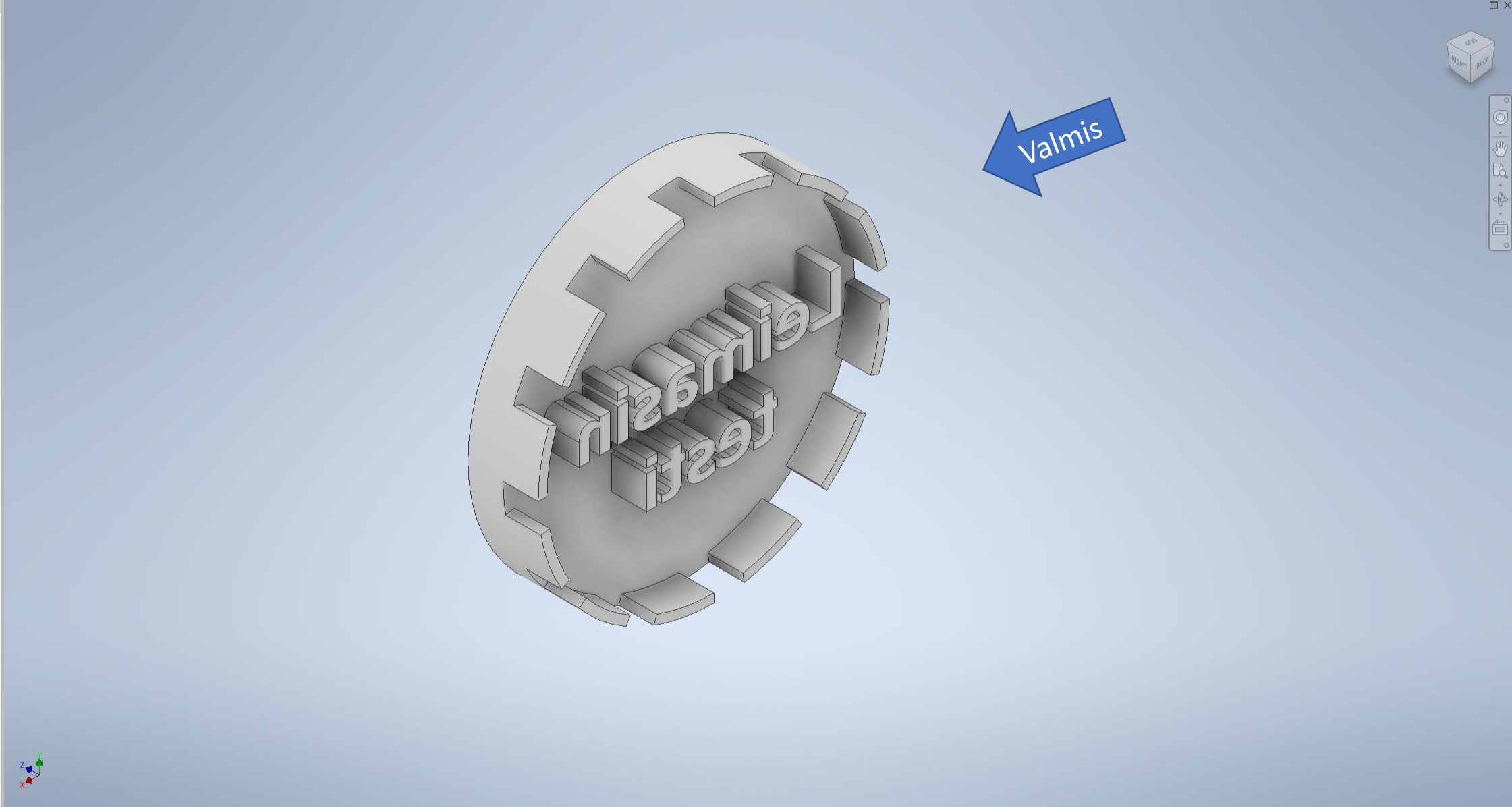
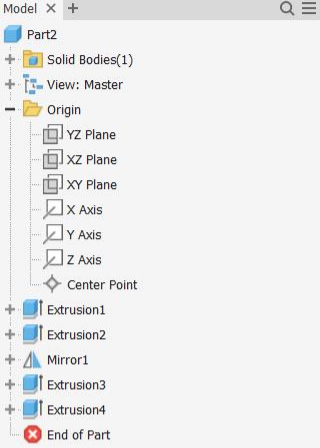
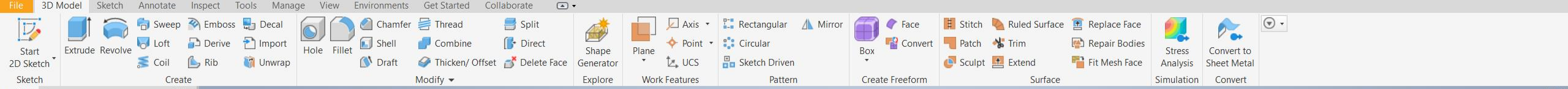
Advanced Properties

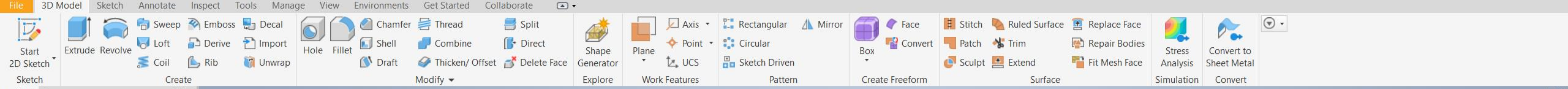
OK Cancel +

KLIK

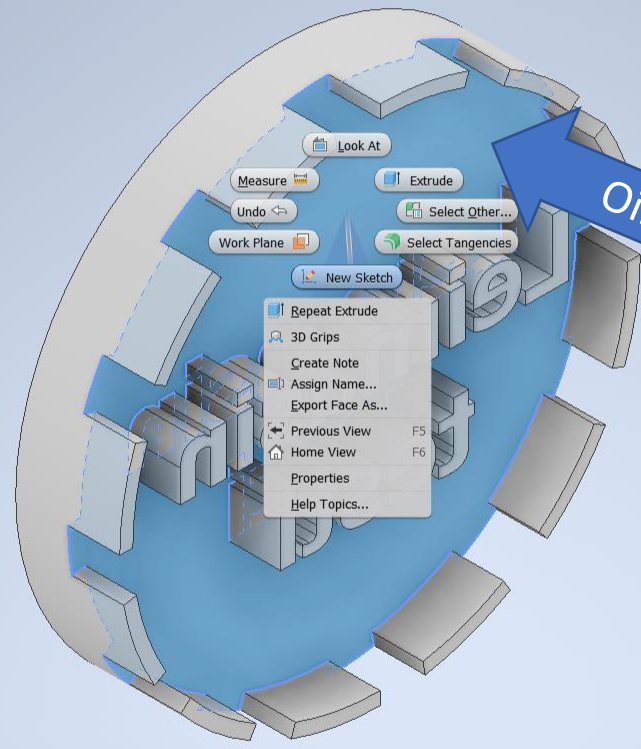


Valitse pursoritettavat

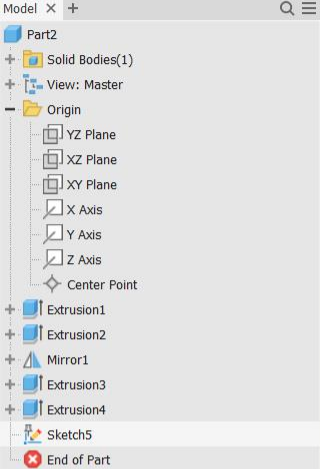
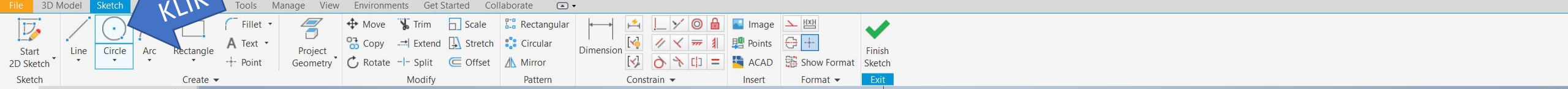




- Part2
- Solid Bodies(1)
- View: Master
- Origin
 - YZ Plane
 - XZ Plane
 - XY Plane
 - X Axis
 - Y Axis
 - Z Axis
 - Center Point
- Extrusion1
- Extrusion2
- Mirror1
- Extrusion3
- Extrusion4
- End of Part



Oikealla napilla new sketch



KLICK

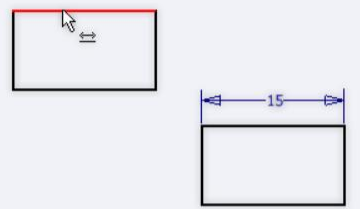
Tee ruuvien reijät



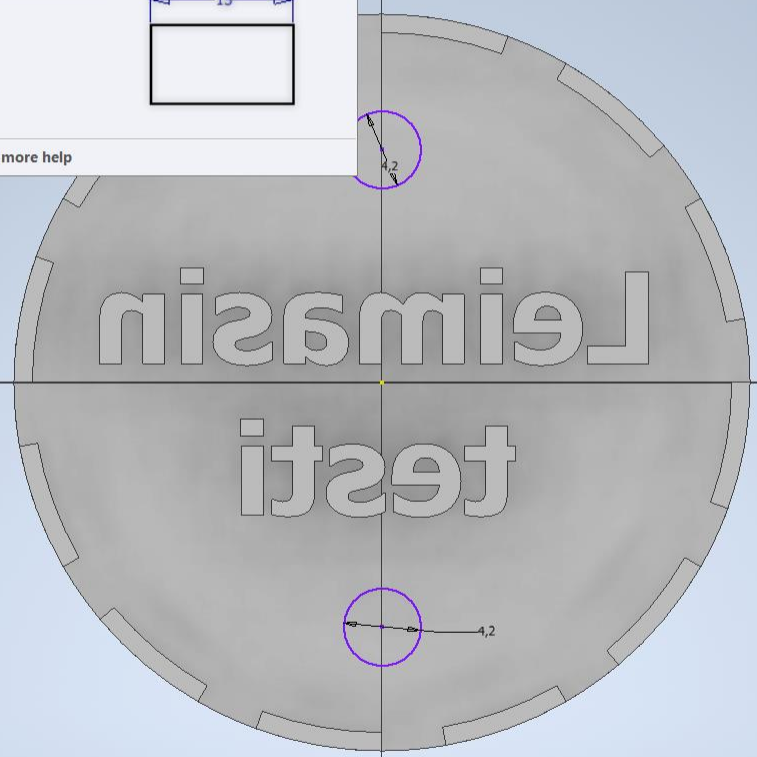
Mitoita reiät kahvaa varaten

General Dimension (D)
Places a dimension in a 2D or 3D sketch.

Dimensions control the size of a part. You can express dimensions as numeric constants, variables in an equation, or in parameter files.



Press F1 for more help



File 3D Model Sketch Annotate Inspect Tools Manage View Environments Get Started Collaborate

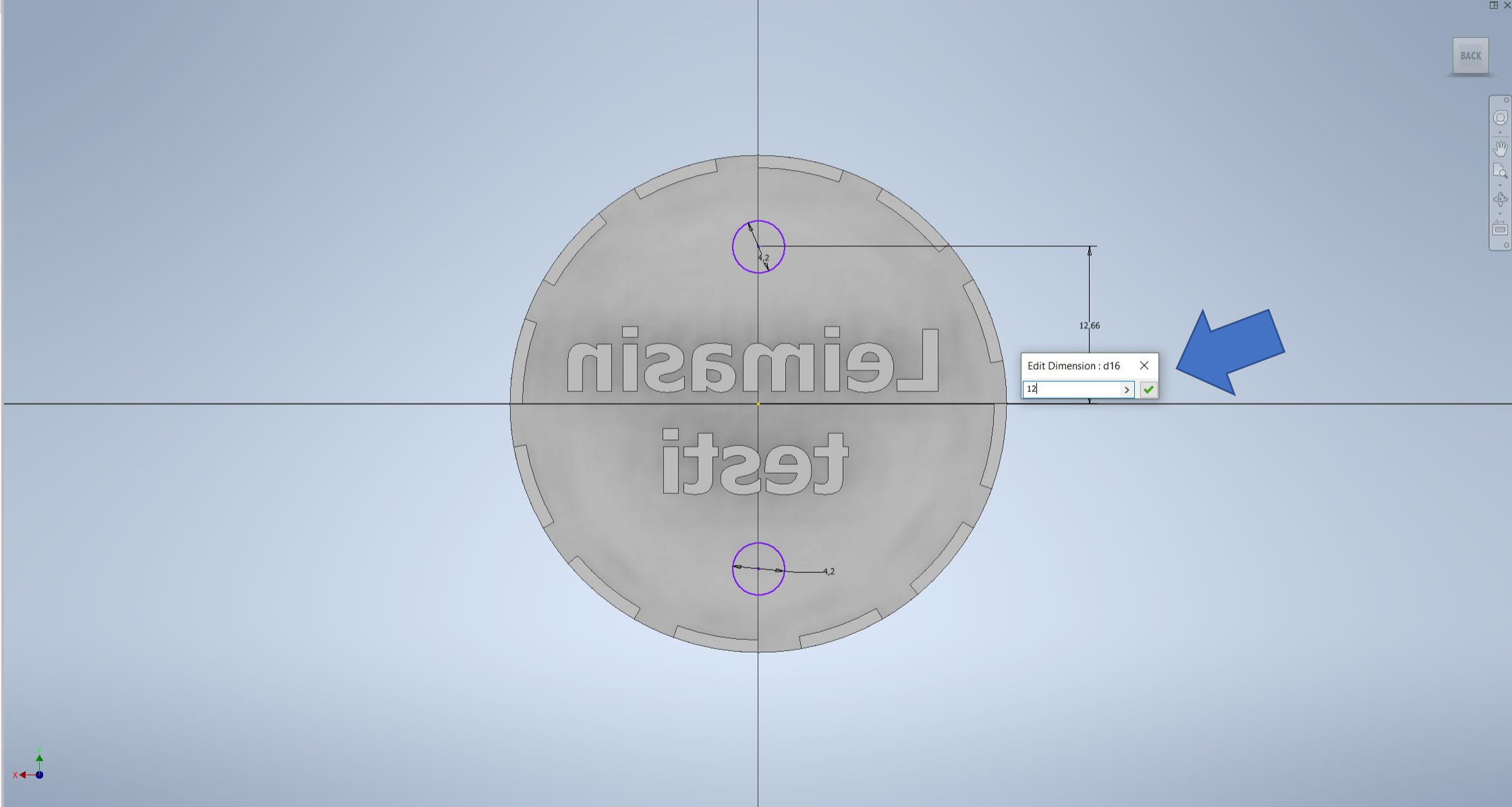
Start 2D Sketch Line Circle Arc Rectangle Fillet Text Project Geometry Move Trim Scale Rectangular Copy Extend Stretch Circular Dimension Image Points ACAD Show Format Finish Sketch Exit

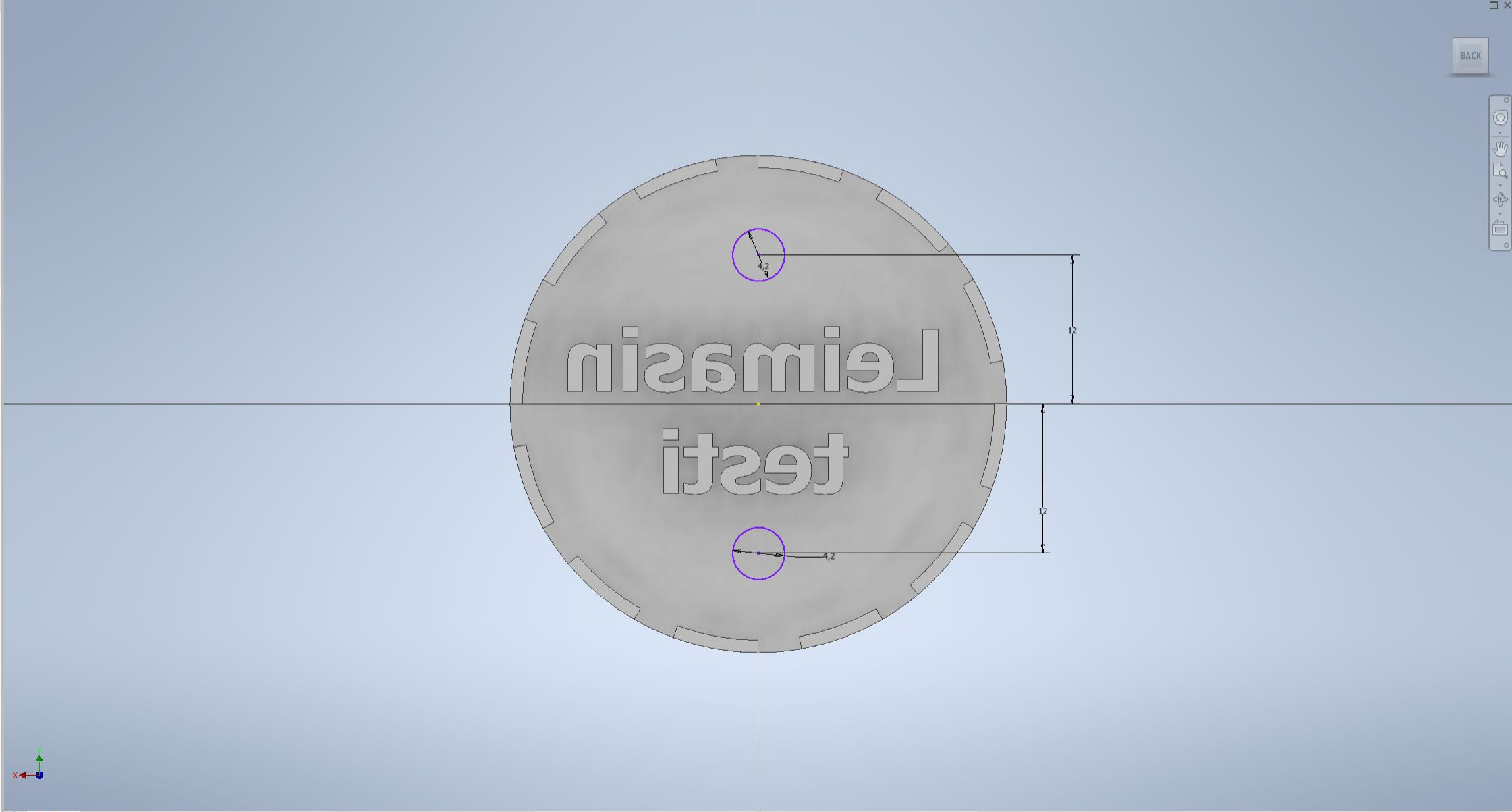
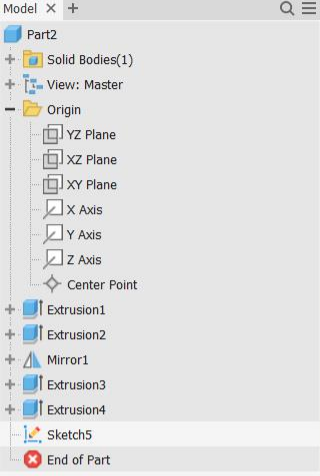
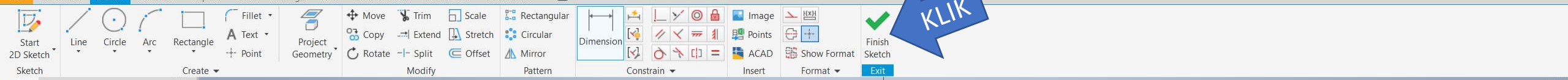
Sketch 2D Sketch Create Model x +

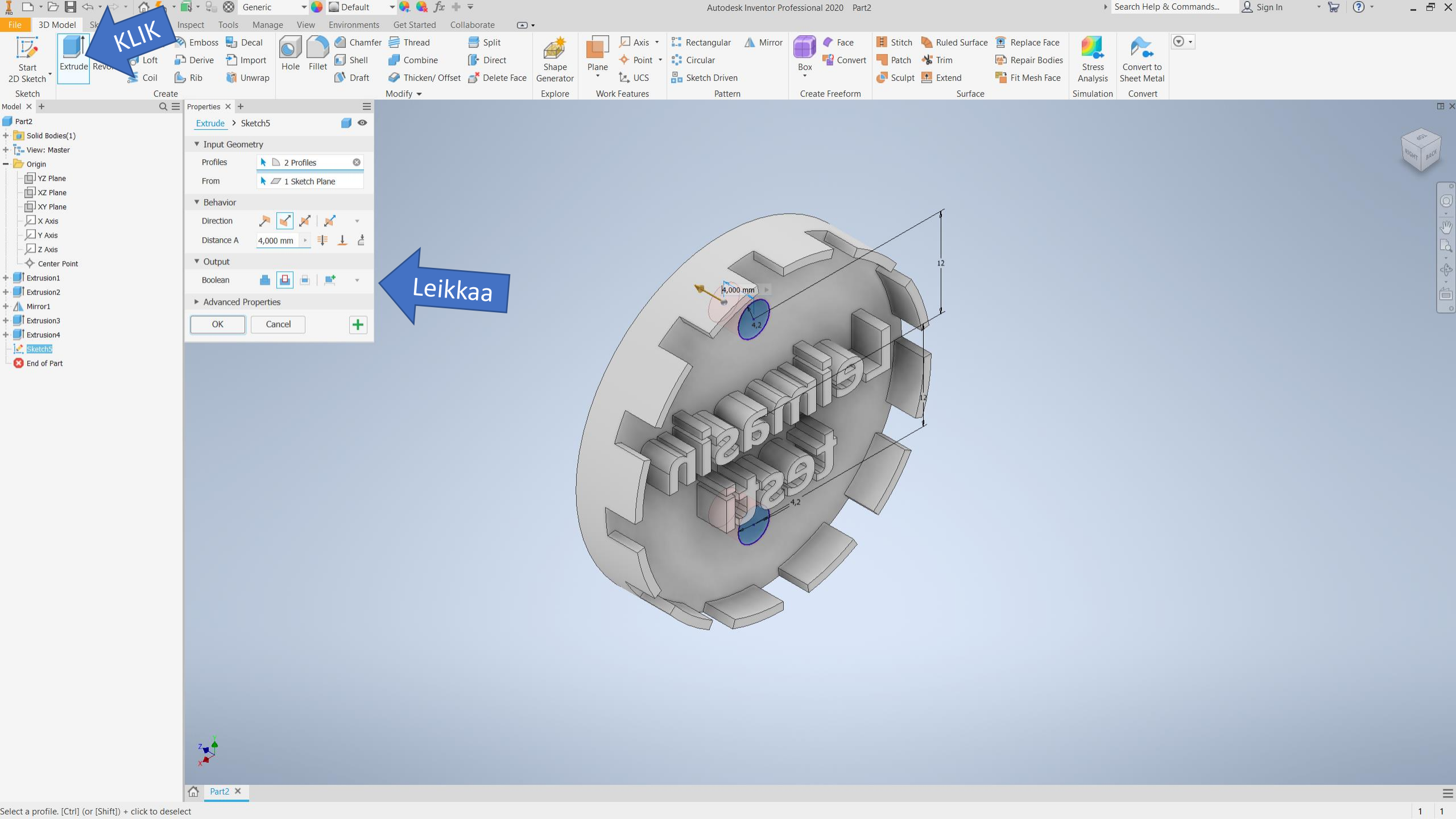
Modify Pattern Constrain Insert Format

Part2

- Solid Bodies(1)
- View: Master
- Origin
 - YZ Plane
 - XZ Plane
 - XY Plane
 - X Axis
 - Y Axis
 - Z Axis
 - Center Point
- Extrusion1
- Extrusion2
- Mirror1
- Extrusion3
- Extrusion4
- Sketch5
- End of Part







KLIK

Leikkaa

Properties x +

Extrude > Sketch5

Input Geometry

Profiles 2 Profiles

From 1 Sketch Plane

Behavior

Direction

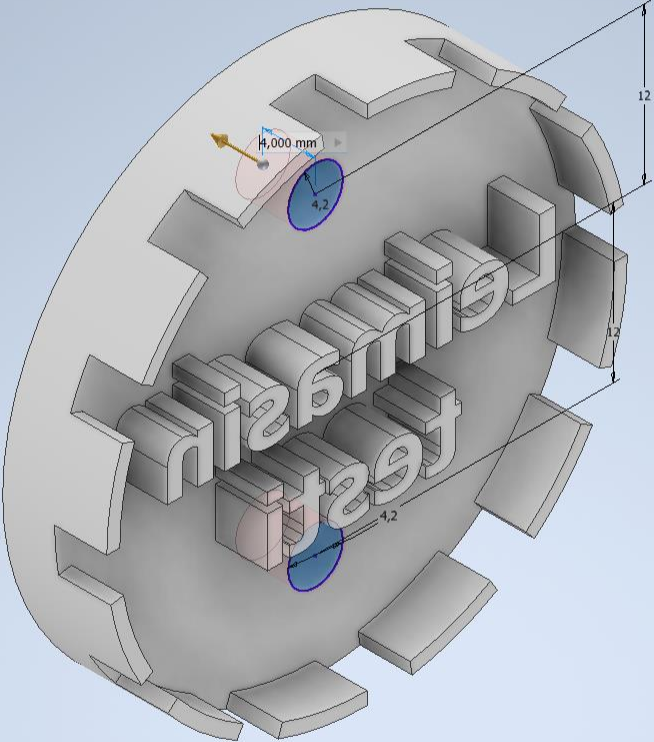
Distance A 4,000 mm

Output

Boolean

Advanced Properties

OK Cancel +



Chamfer

Chamfer Partial

Edges Distance 2 mm

Edge Chain Setback

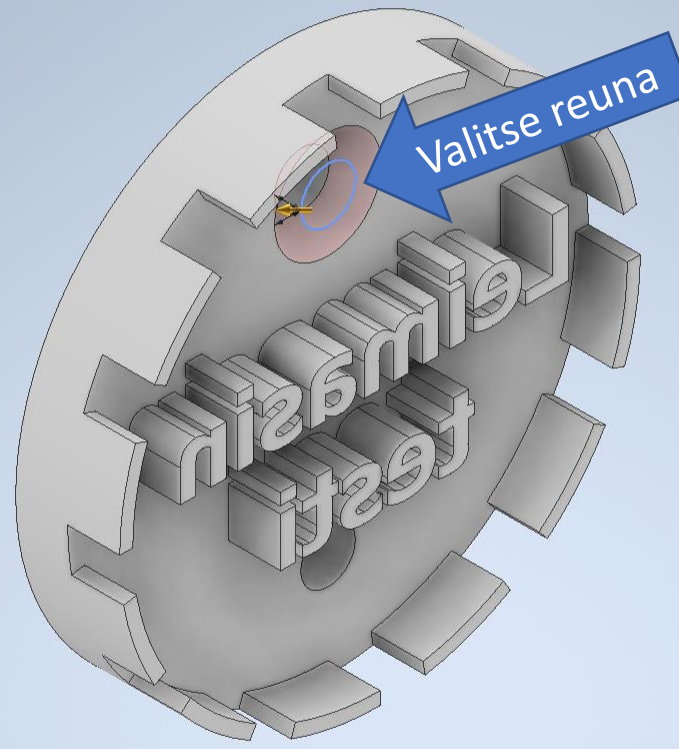
Preserve All Features

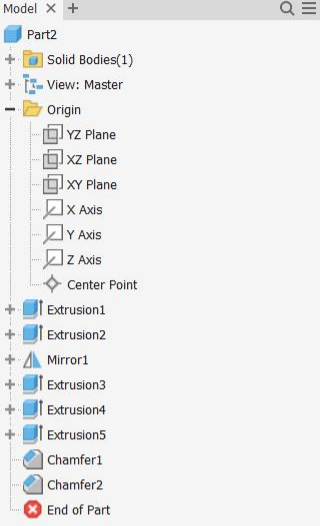
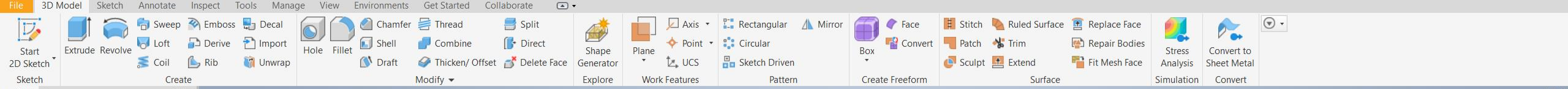
OK Cancel Apply

KLIK

Mitoitusta voi säätää

Valitse reuna





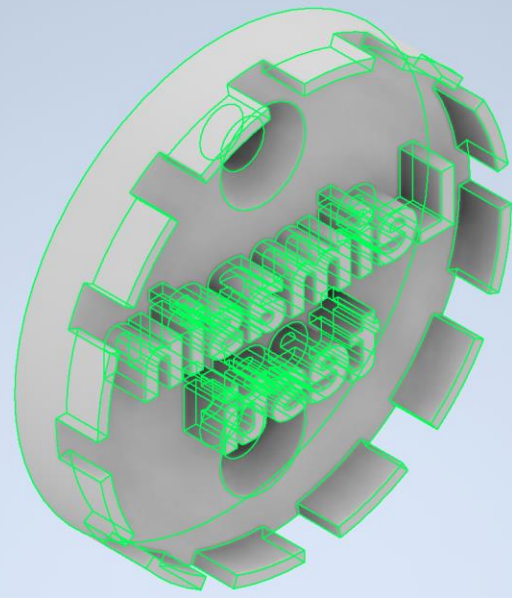
Export

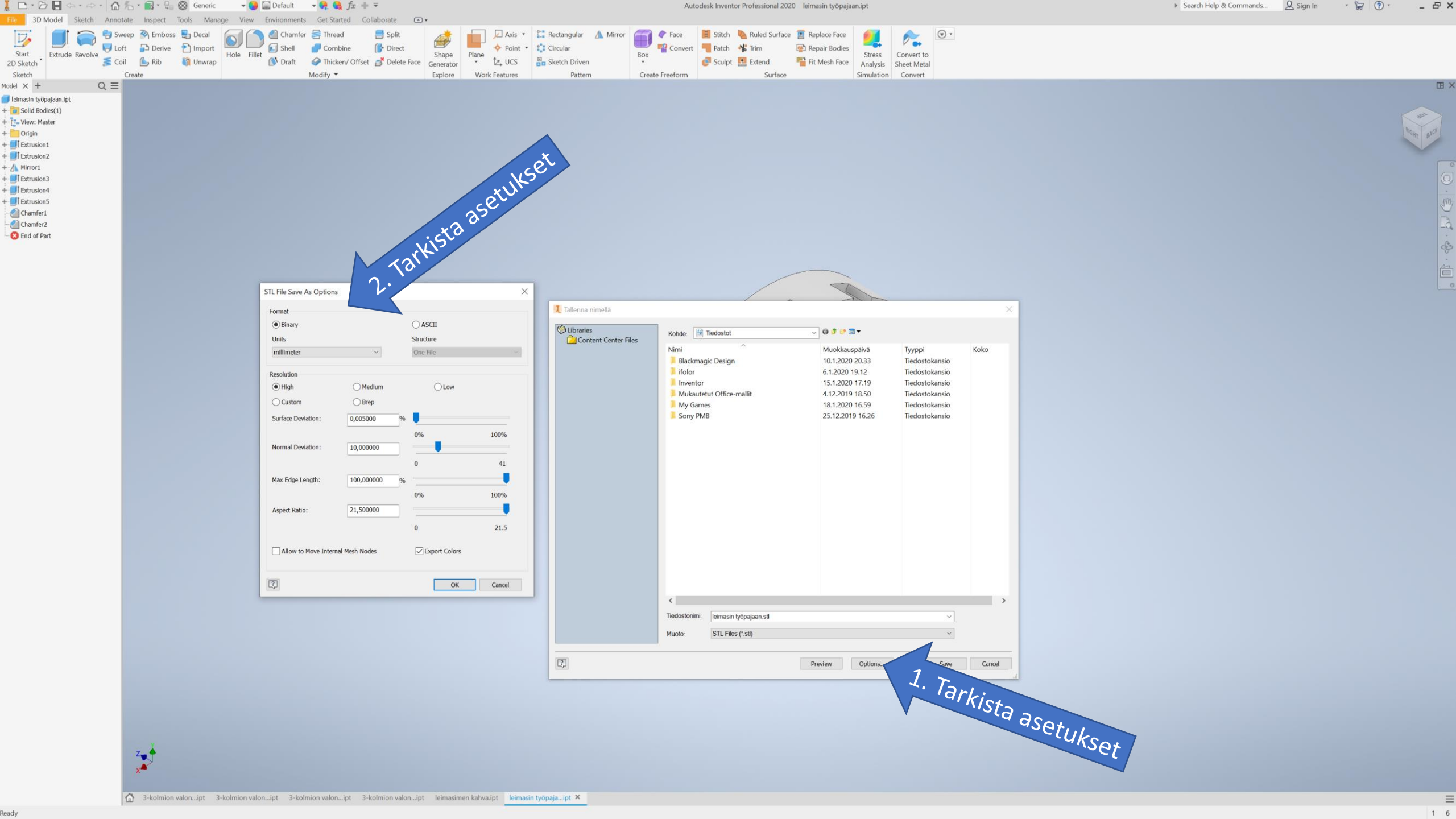
- Image**
Export the file in image file format such as BMP, JPEG, PNG, or TIFF.
- 3D PDF**
Export to a 3D PDF file.
- PDF**
Export the file in PDF file format.
- CAD Format**
Export the file in another CAD file format such as Parasolid, PRO-E, or STEP.
- Export to DWG**
Export the file into DWG file format.
- Export to DWF**
Export the file into DWF file format.
- Send DWF**
Run the default email application with the DWF file attached in it.

Options Exit Autodesk Inventor Professional

Chamfer Thread Split Fillet Shell Combine Direct Draft Thicken/ Offset Delete Face Shape Generator Plane Axis Point UCS Rectangular Circular Sketch Driven Mirror Face Convert Box Create Freeform Patch Trim Sculpt Extend Surface Ruled Surface Replace Face Repair Bodies Fit Mesh Face Stress Analysis Simulation Convert to Sheet Metal Convert

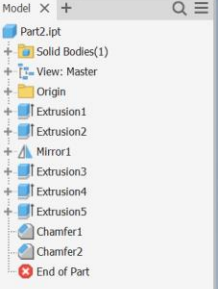
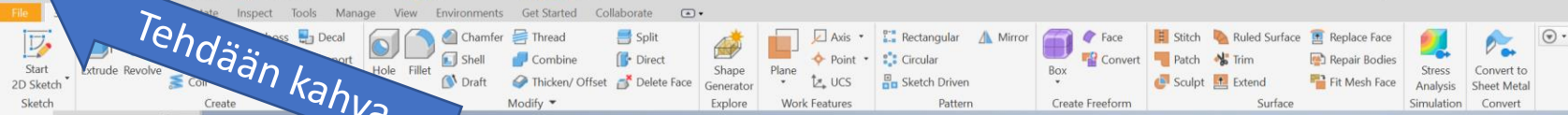
Exporttaa tulostus muotoon





2. Tarkista asetukset

1. Tarkista asetukset



Tehdään kahva

Create New File

C:\Users\Public\Documents\Autodesk\Inventor 2020\Templates

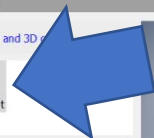
- Templates
 - en-US
 - Part - Create 2D and 3D
 - Sheet Standard.ipt
 - Metal.ipt
 - Assembly - Assemble 2D and 3D component
 - Standard.iam
 - Weldment.iam
 - Drawing - Create an annotated document
 - standard.dwg
 - Standard.idw
 - Presentation - Create an exploded projection
 - Standard.ipn

File: Standard.ipt
 Display Name: Part
 Units: millimeter
 Material: Generic

This template creates a 2D or 3D object composed of features and one or more bodies.

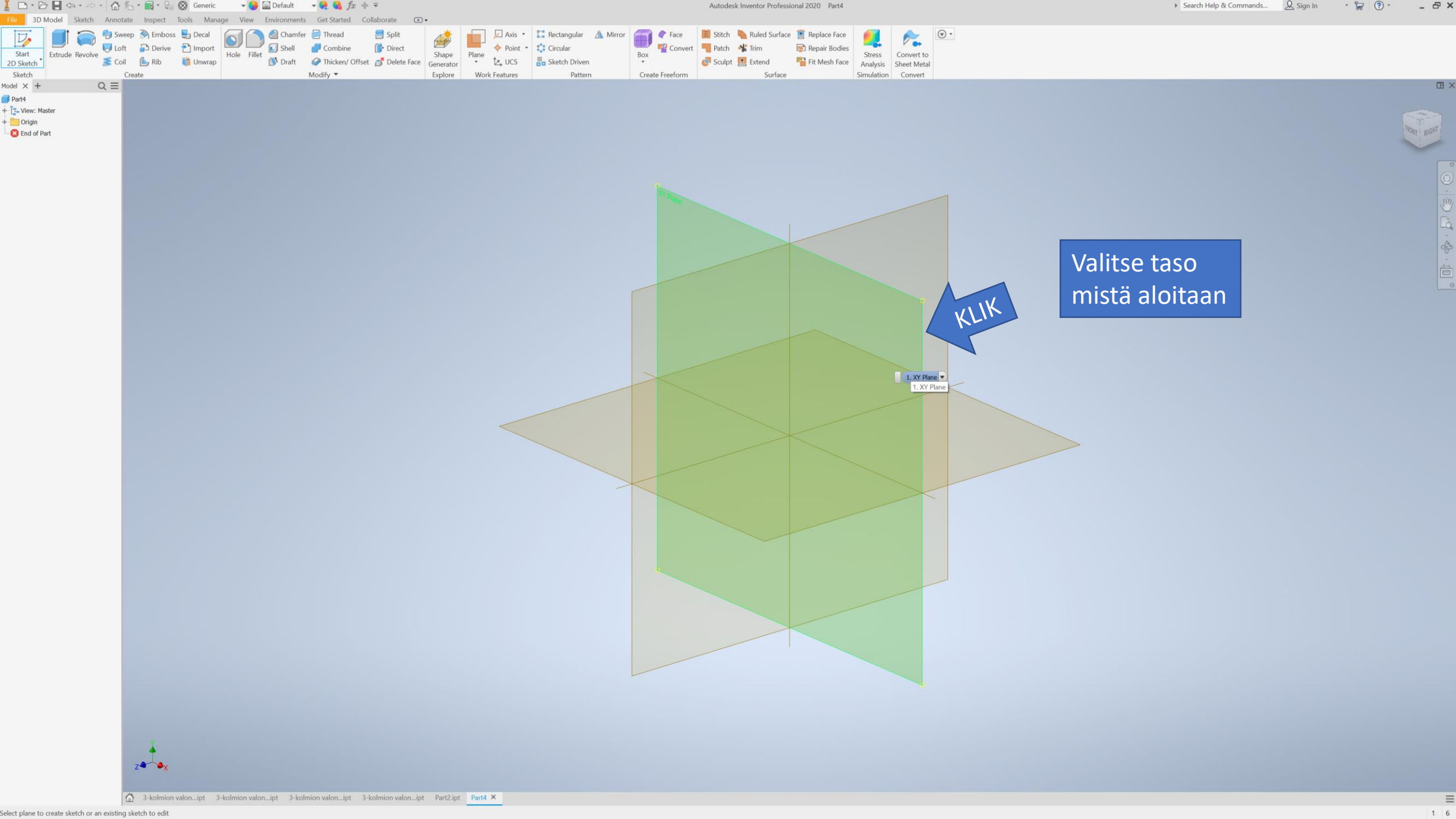
Project File: Default.ipt

Projects... Create Cancel



BACK





Valitse taso
mistä aloitaan

KLIK

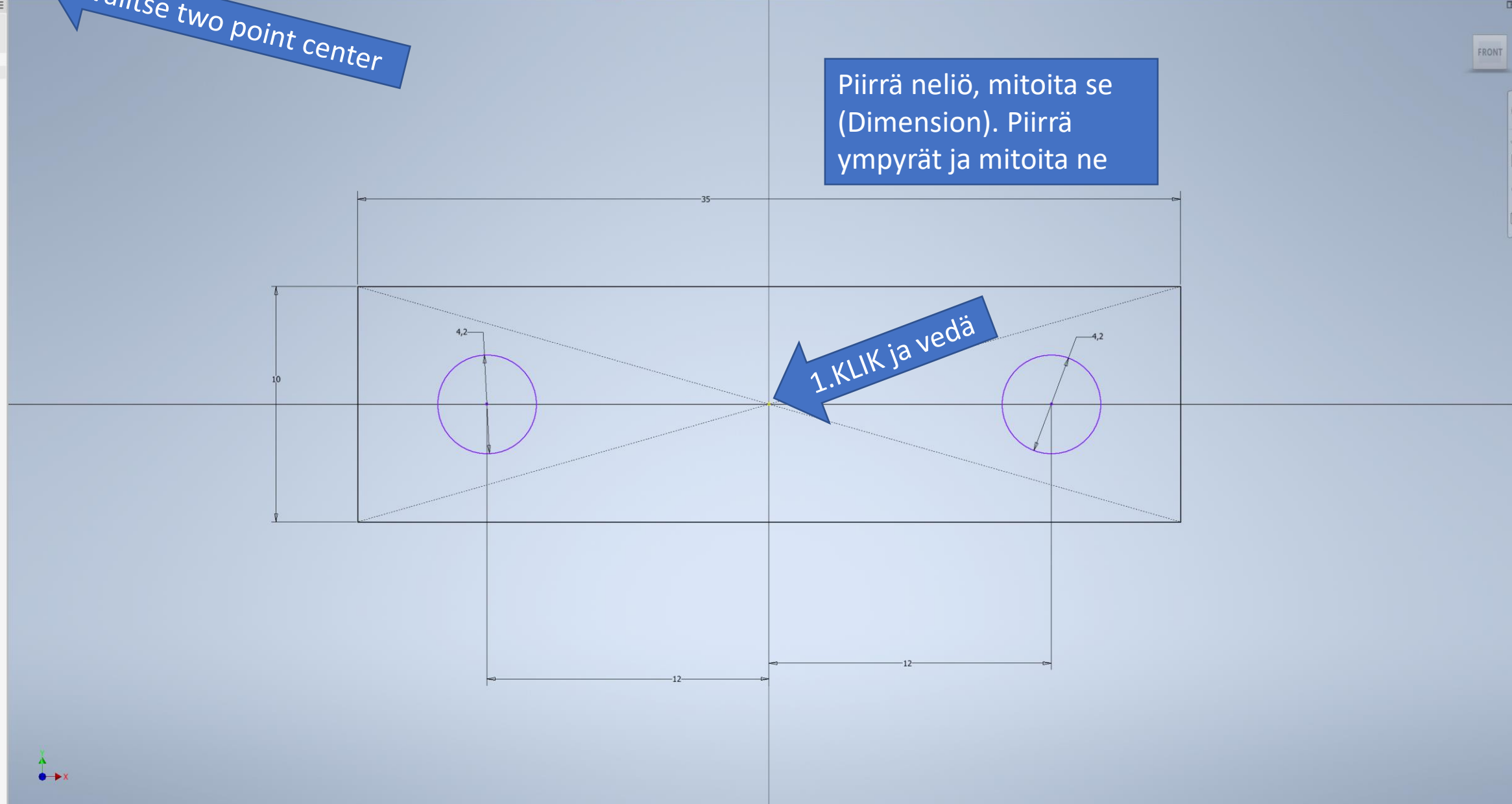
1. XY Plane



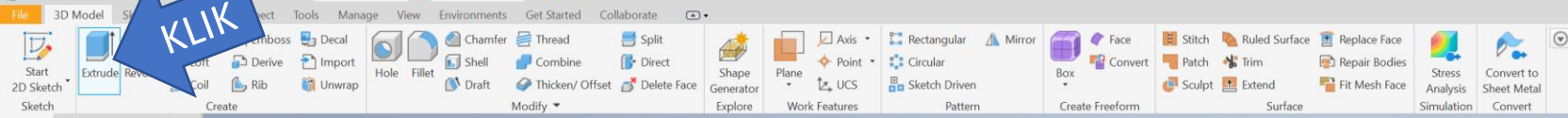
Valitse two point center

KLIK

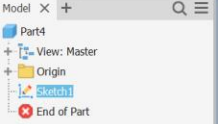
Piirrä neliö, mitoita se (Dimension). Piirrä ympyrät ja mitoita ne



1.KLIK ja vedä



KLIK



Properties X +

Extrude > Sketch1

Input Geometry

Profiles: 1 Profile

From: 1 Sketch Plane

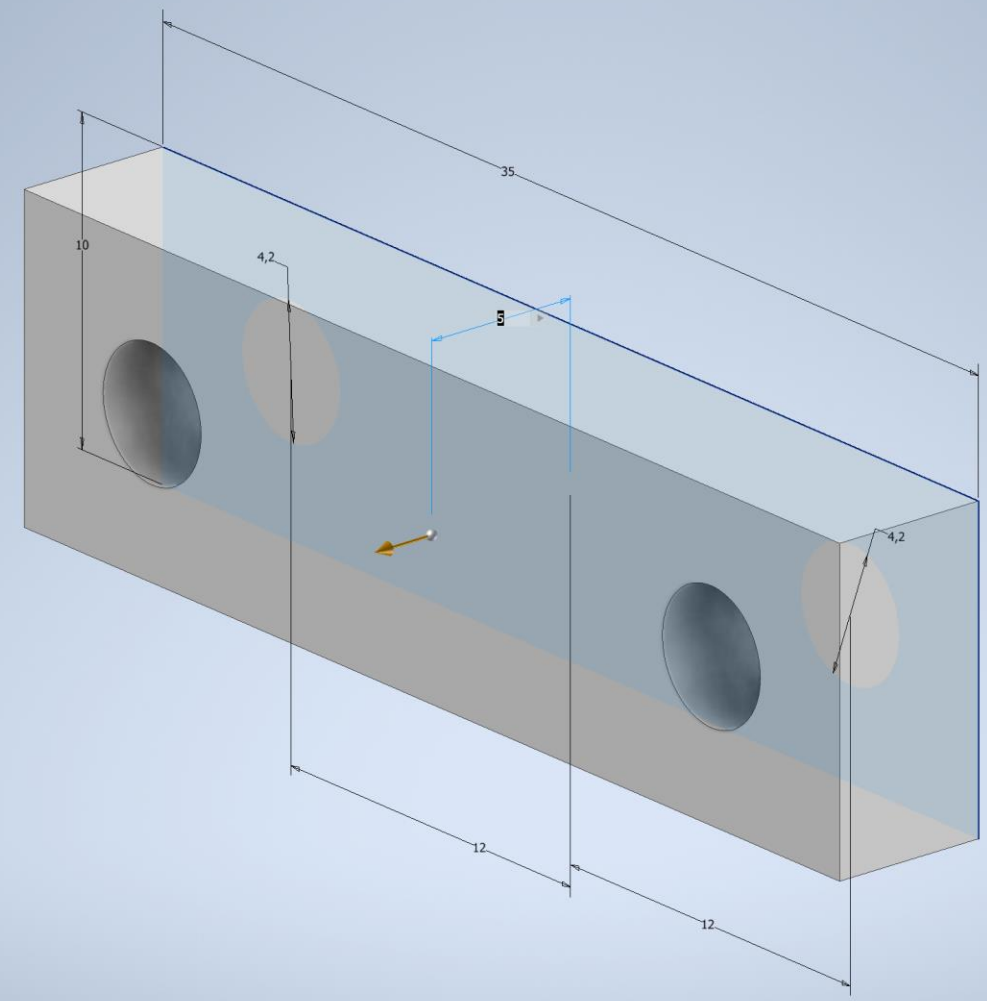
Behavior

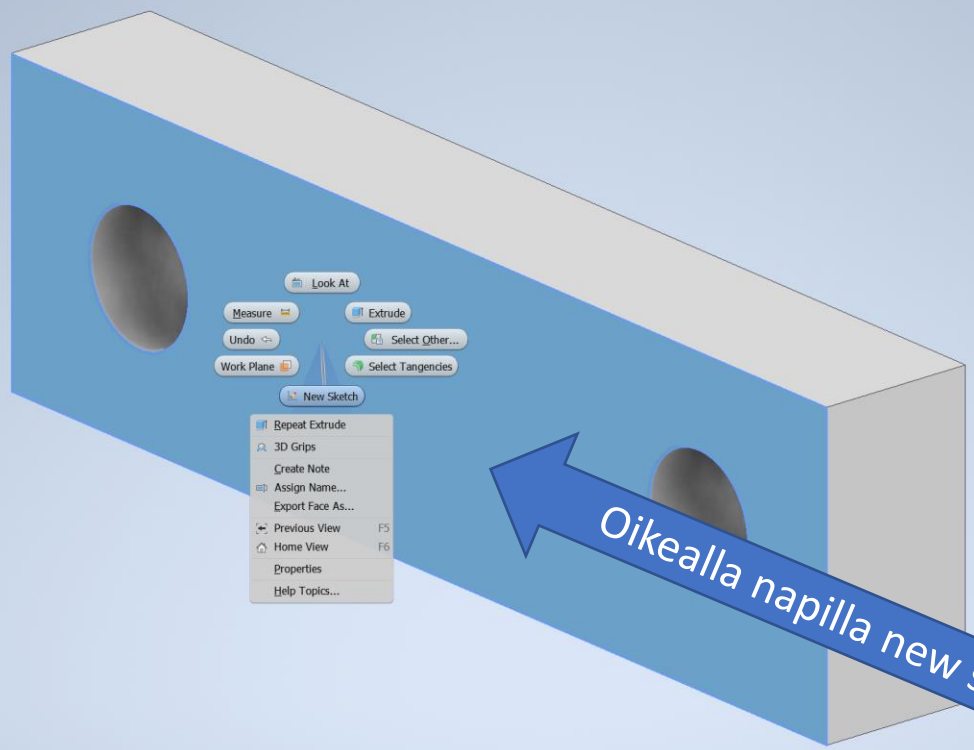
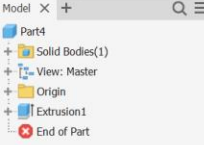
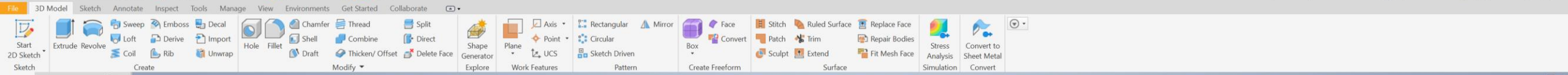
Direction: [Icon]

Distance A: 5

Advanced Properties

OK Cancel +



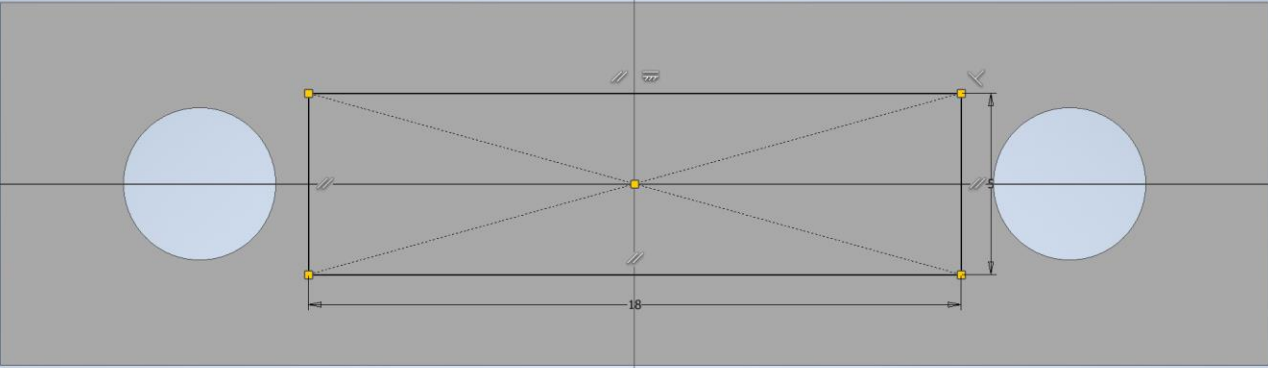


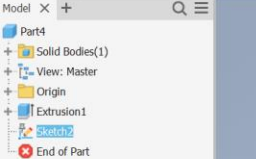
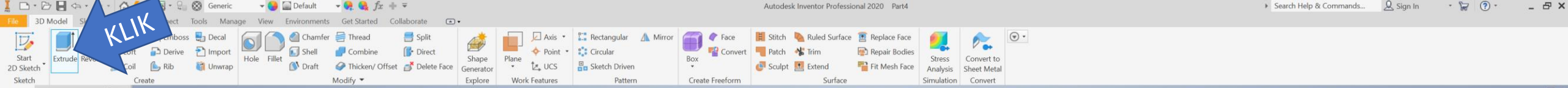
Oikealla napilla new sketch





Piirrä neliö, mitoita se (Dimension).





Properties X +

Extrude > Sketch2

Input Geometry

Profiles: 1 Profile

From: 1 Sketch Plane

Behavior

Direction: [Direction Icon]

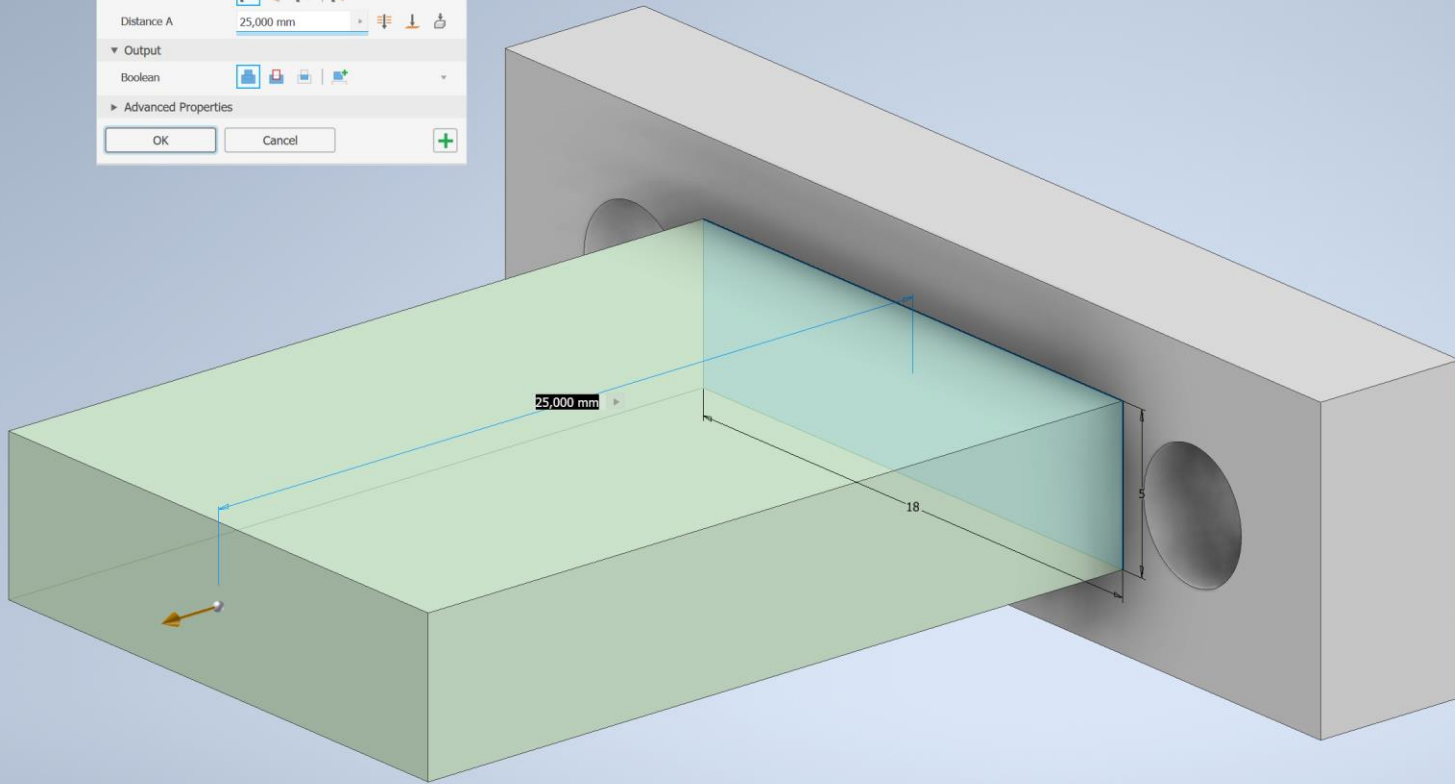
Distance A: 25,000 mm

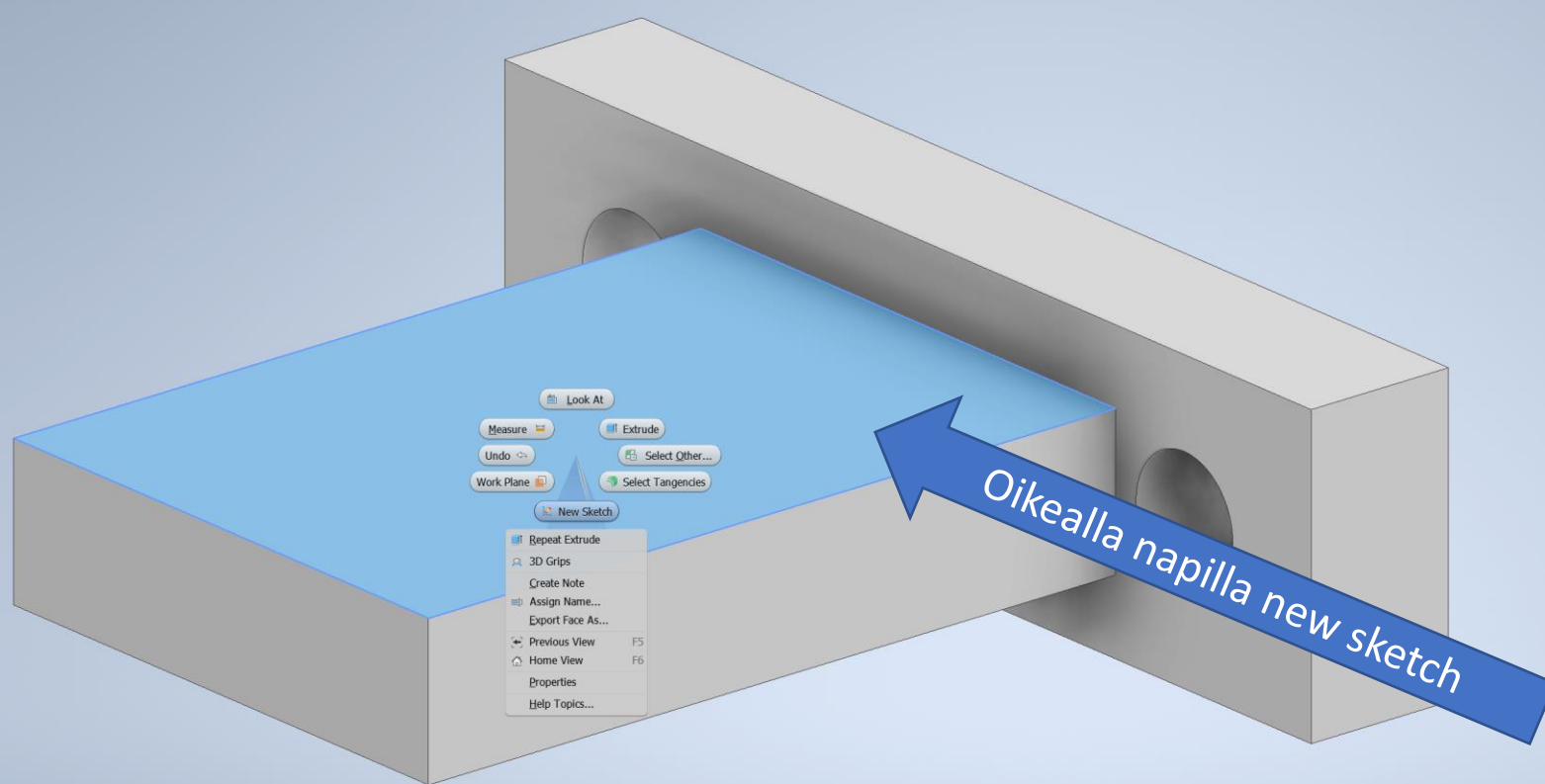
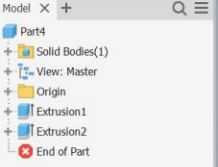
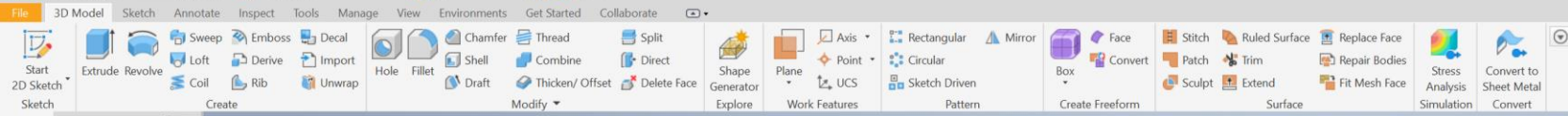
Output

Boolean: [Boolean Icon]

Advanced Properties

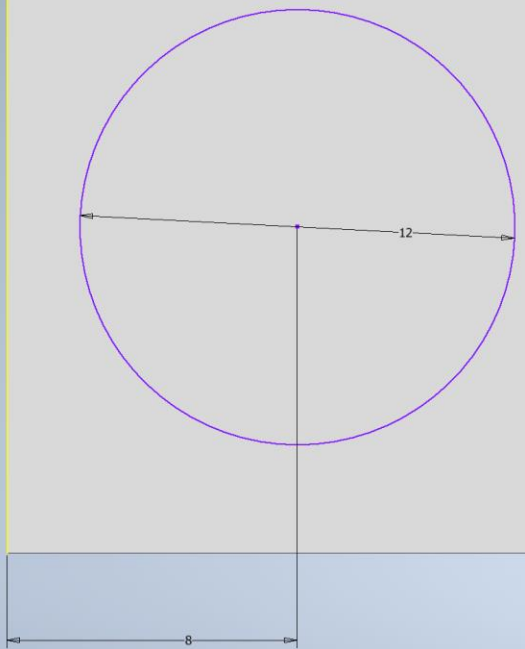
OK Cancel +

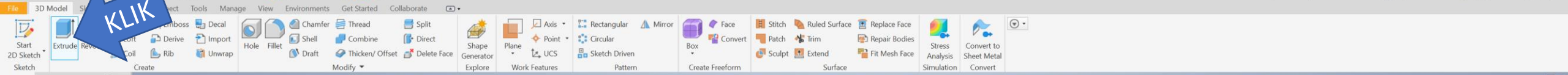




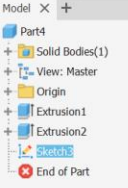
KLIK

Piirrä ympyrä ja mitoitase (Dimension).





KLIK



Properties X +

Extrude > Sketch3

Input Geometry

Profiles: 1 Profile

From: 1 Sketch Plane

Behavior

Direction: [Icon]

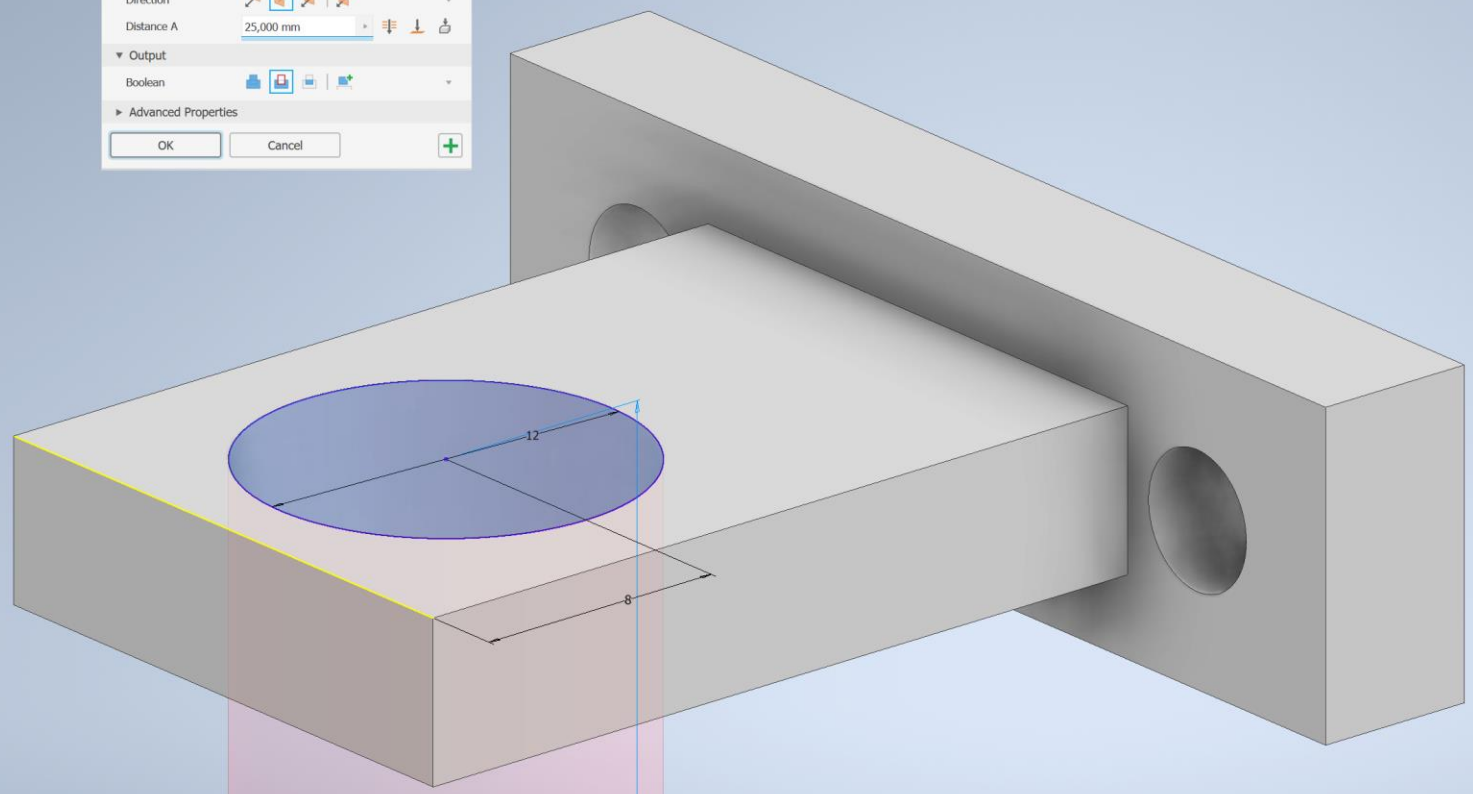
Distance A: 25,000 mm

Output

Boolean: [Icon]

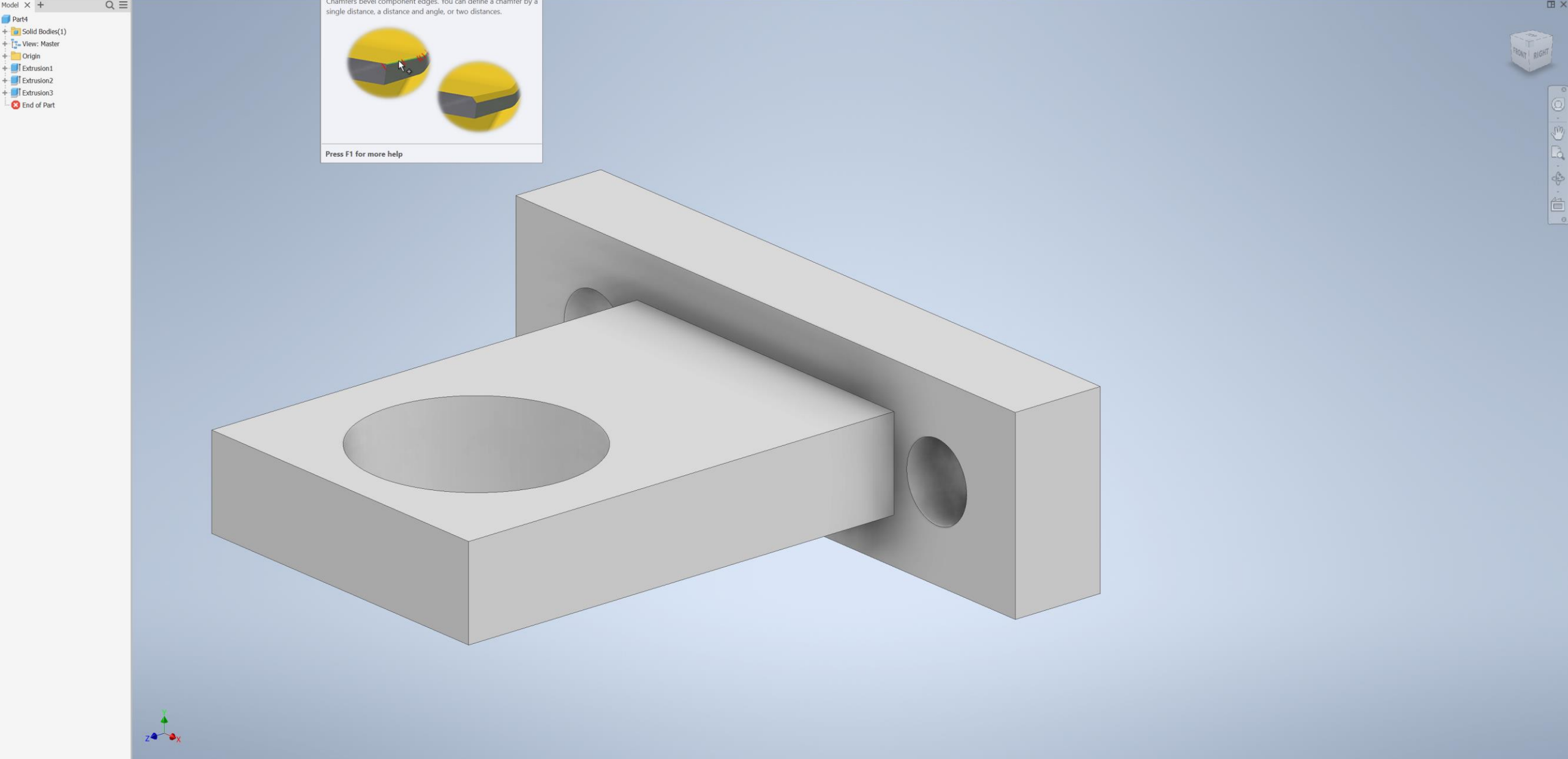
Advanced Properties

OK Cancel +



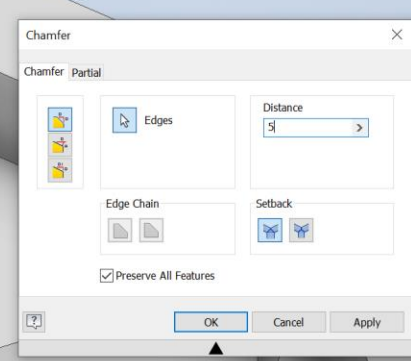
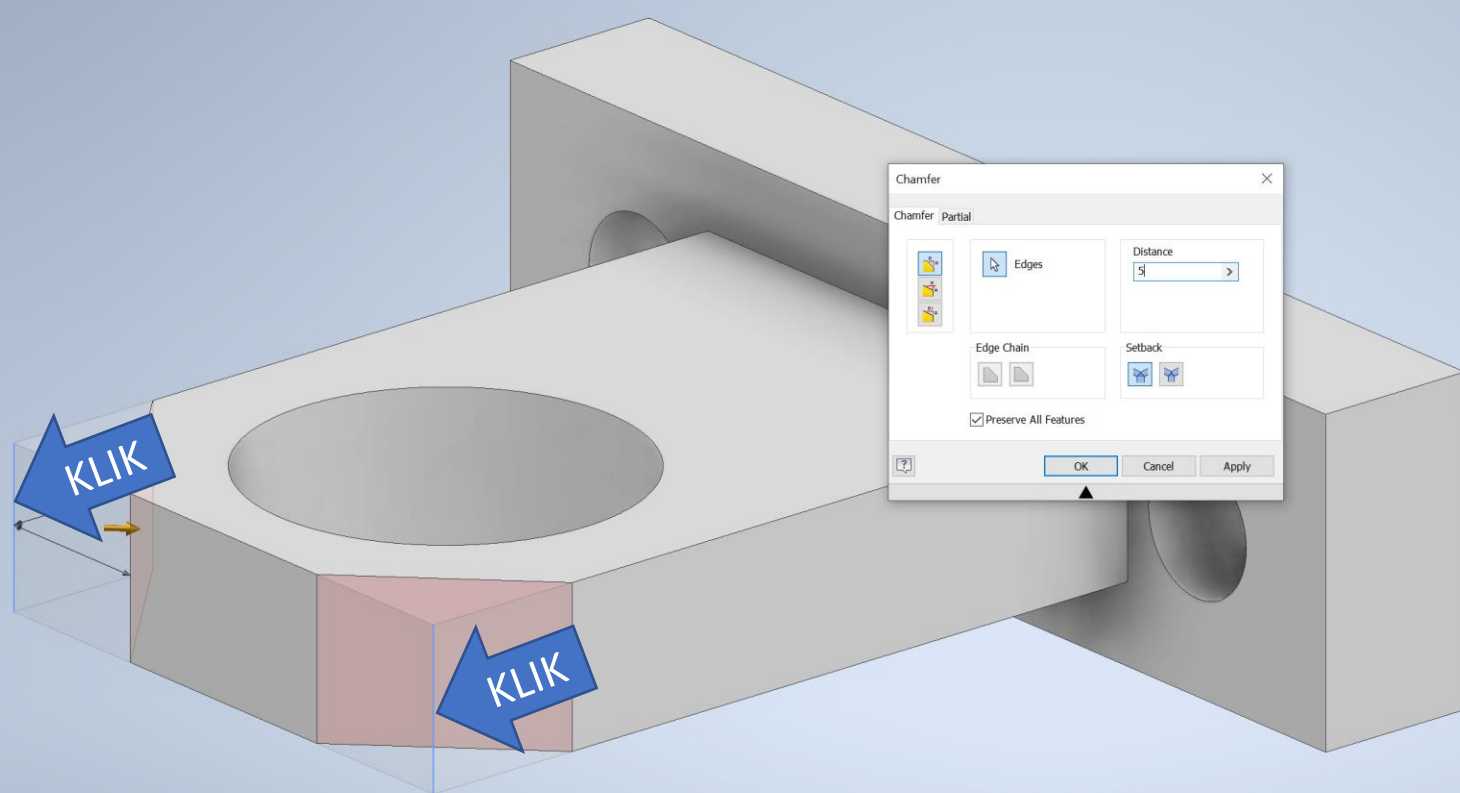
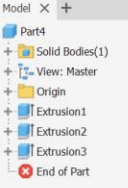
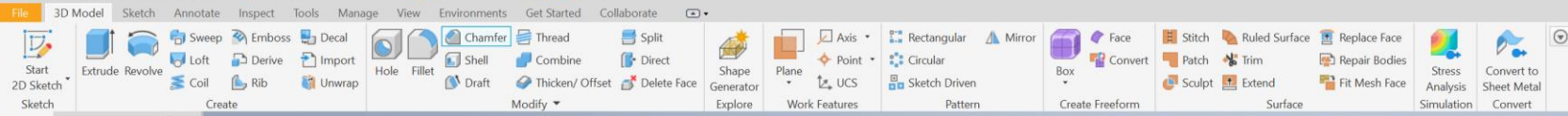
25,000 mm

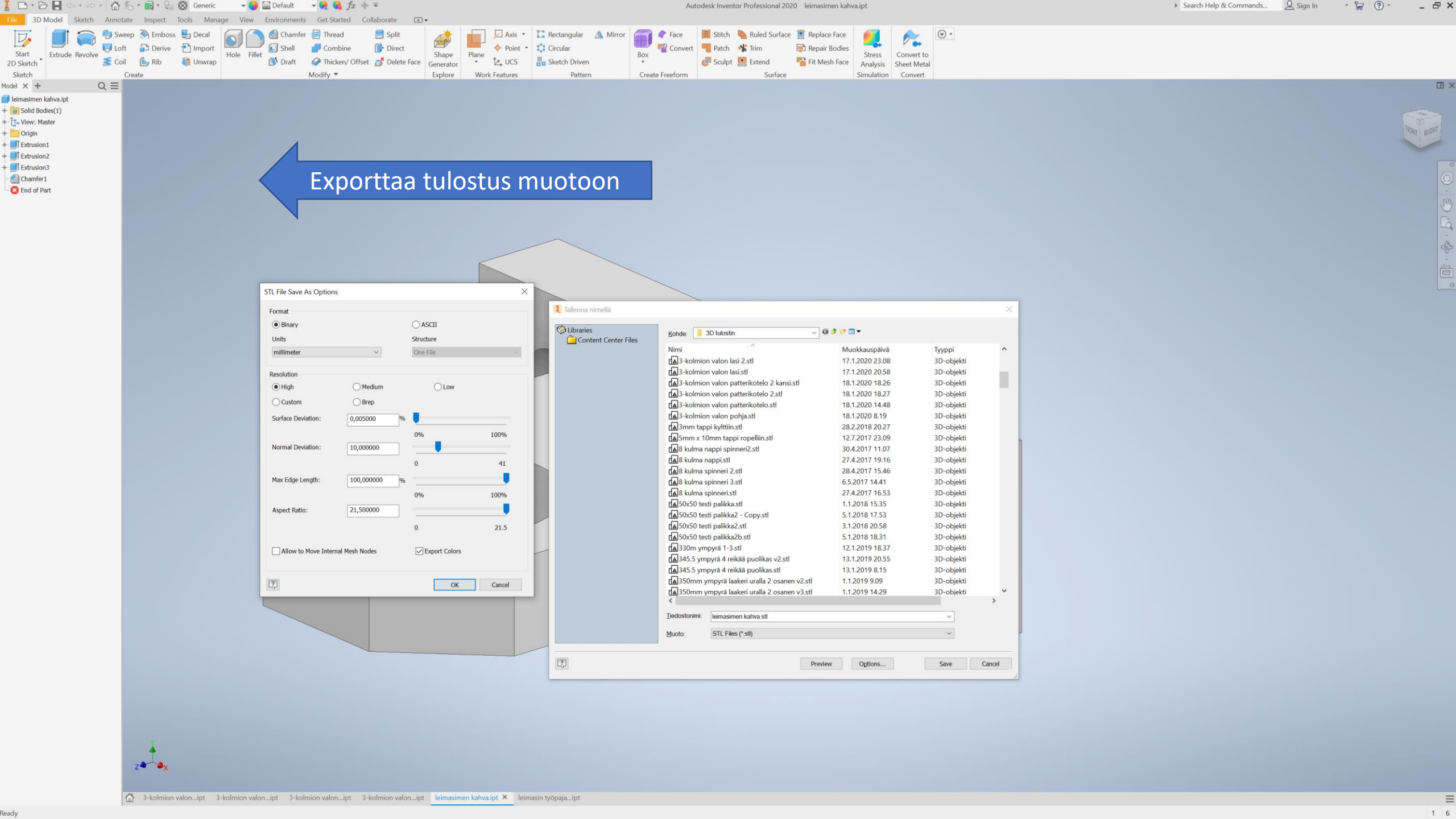




Chamfer (Shift+K)
 Applies a bevel to one or more component edges. You can define a chamfer by a single distance, a distance and angle, or two distances.

Press F1 for more help





Exporttaa tulostus muotoon

STL File Save As Options

Format: Binary ASCII

Units: millimeter Structure: One File

Resolution: High Medium Low

Surface Deviation: 0,005000 %

Normal Deviation: 10,000000 %

Max Edge Length: 100,000000 %

Aspect Ratio: 21,500000

Allow to Move Internal Mesh Nodes Export Colors

OK Cancel

Tallenna nimellä

Kohde: 3D tulostin

Nimi	Muokauspäivä	Tyyppi
3-kolmion valon lasi 2.stl	17.1.2020 23.08	3D-objekti
3-kolmion valon lasi.stl	17.1.2020 20.58	3D-objekti
3-kolmion valon patterikotelo 2 kansistl	18.1.2020 18.26	3D-objekti
3-kolmion valon patterikotelo 2.stl	18.1.2020 18.27	3D-objekti
3-kolmion valon patterikotelo.stl	18.1.2020 14.48	3D-objekti
3-kolmion valon pohja.stl	18.1.2020 8.19	3D-objekti
3mm tappi kylttiin.stl	28.2.2018 20.27	3D-objekti
5mm x 10mm tappi ropelliin.stl	12.7.2017 23.09	3D-objekti
8 kulma nappi spinneri2.stl	30.4.2017 11.07	3D-objekti
8 kulma nappi.stl	27.4.2017 19.16	3D-objekti
8 kulma spinneri 2.stl	28.4.2017 15.46	3D-objekti
8 kulma spinneri 3.stl	6.5.2017 14.41	3D-objekti
8 kulma spinneri.stl	27.4.2017 16.53	3D-objekti
50x50 testi palikka.stl	1.1.2018 15.35	3D-objekti
50x50 testi palikka2 - Copy.stl	5.1.2018 17.53	3D-objekti
50x50 testi palikka2.stl	3.1.2018 20.58	3D-objekti
50x50 testi palikka2b.stl	5.1.2018 18.31	3D-objekti
330mm ympyrä 1-3.stl	12.1.2019 18.37	3D-objekti
345.5 ympyrä 4 reikää puolikas v2.stl	13.1.2019 20.55	3D-objekti
345.5 ympyrä 4 reikää puolikas.stl	13.1.2019 8.15	3D-objekti
350mm ympyrä laakeri uralla 2 osanen v2.stl	1.1.2019 9.09	3D-objekti
350mm ympyrä laakeri uralla 2 osanen v3.stl	1.1.2019 14.29	3D-objekti

Tiedostonimi: leimasimen kahva.stl

Muoto: STL Files (*.stl)

Preview Options... Save Cancel