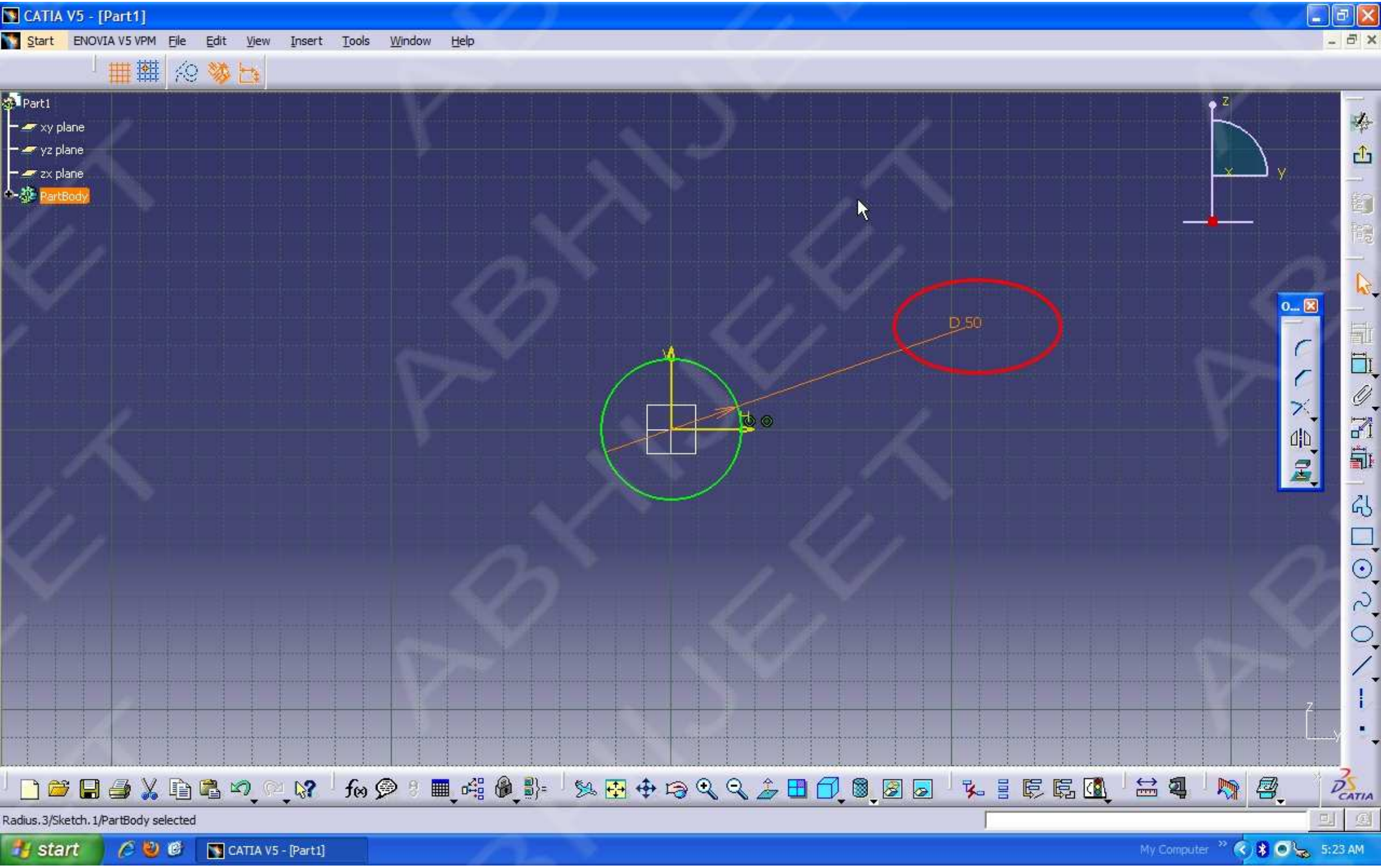
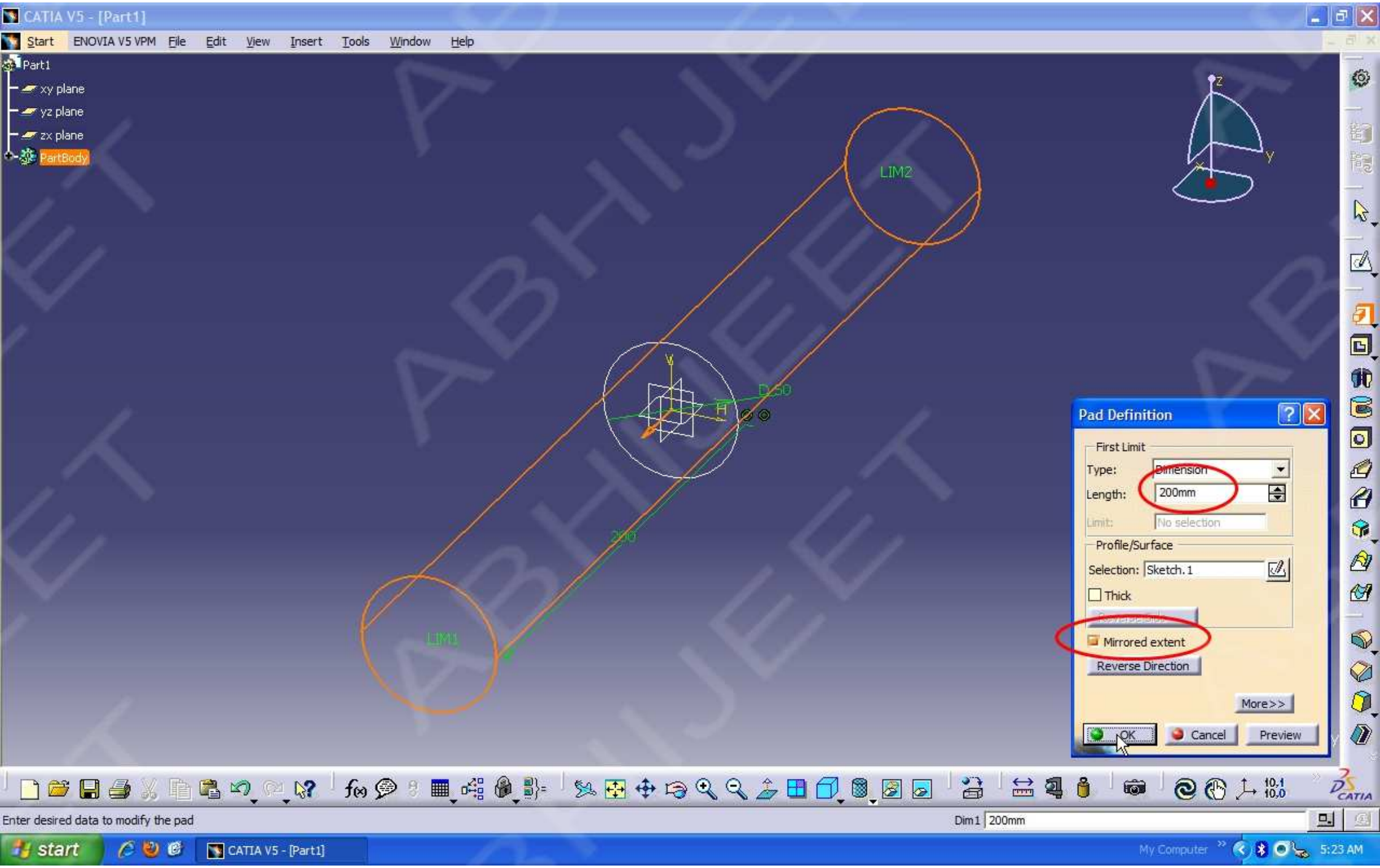
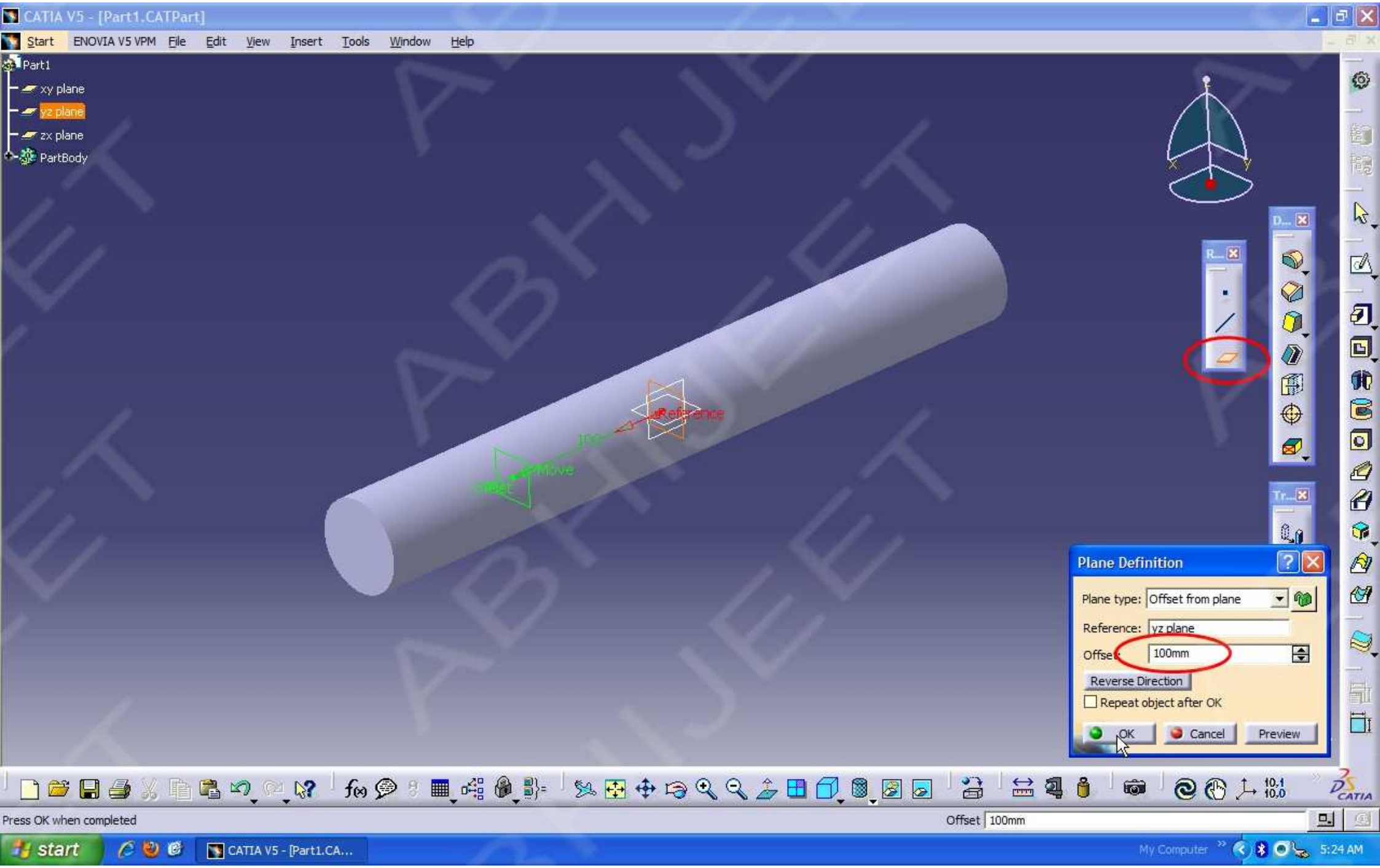
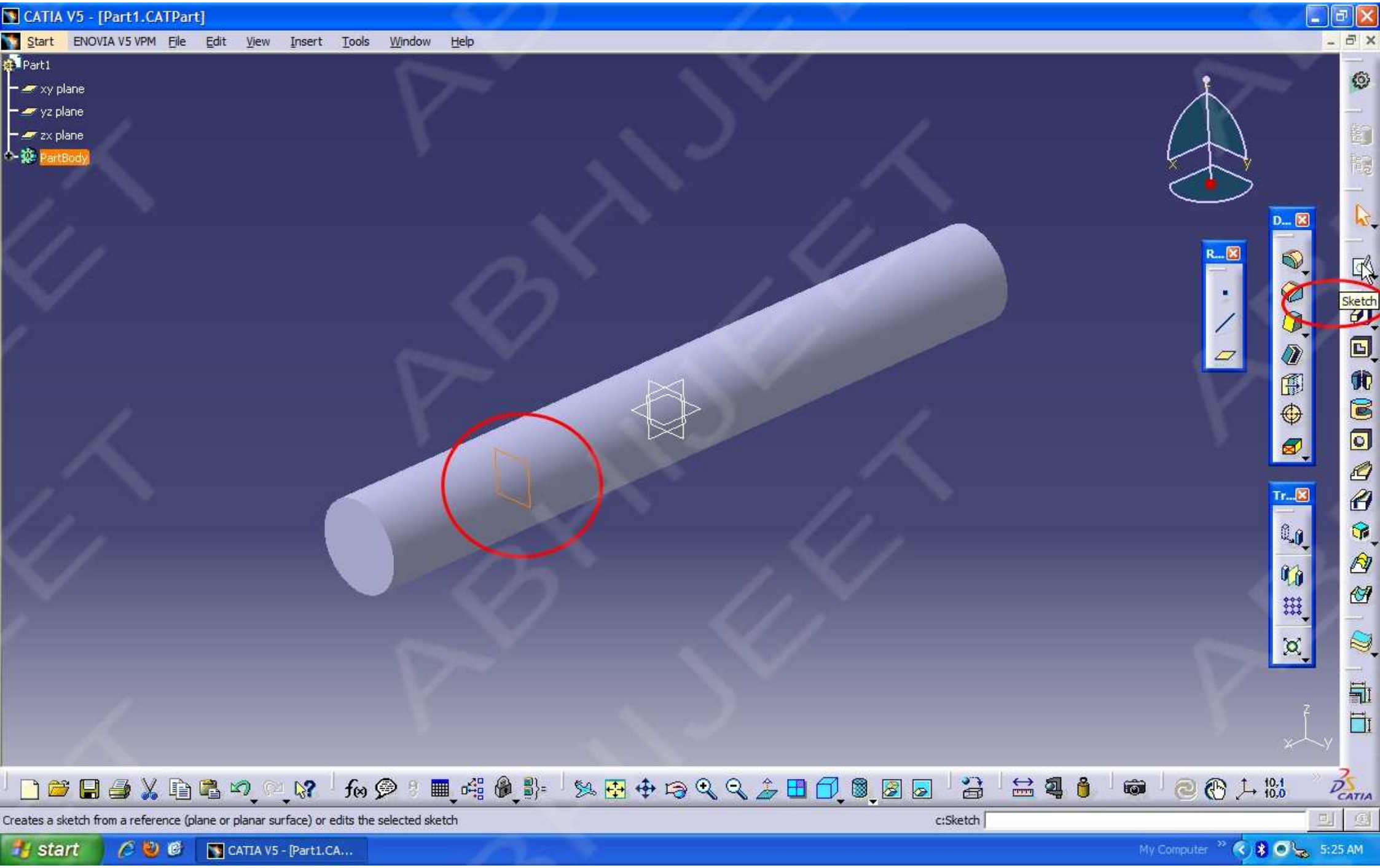
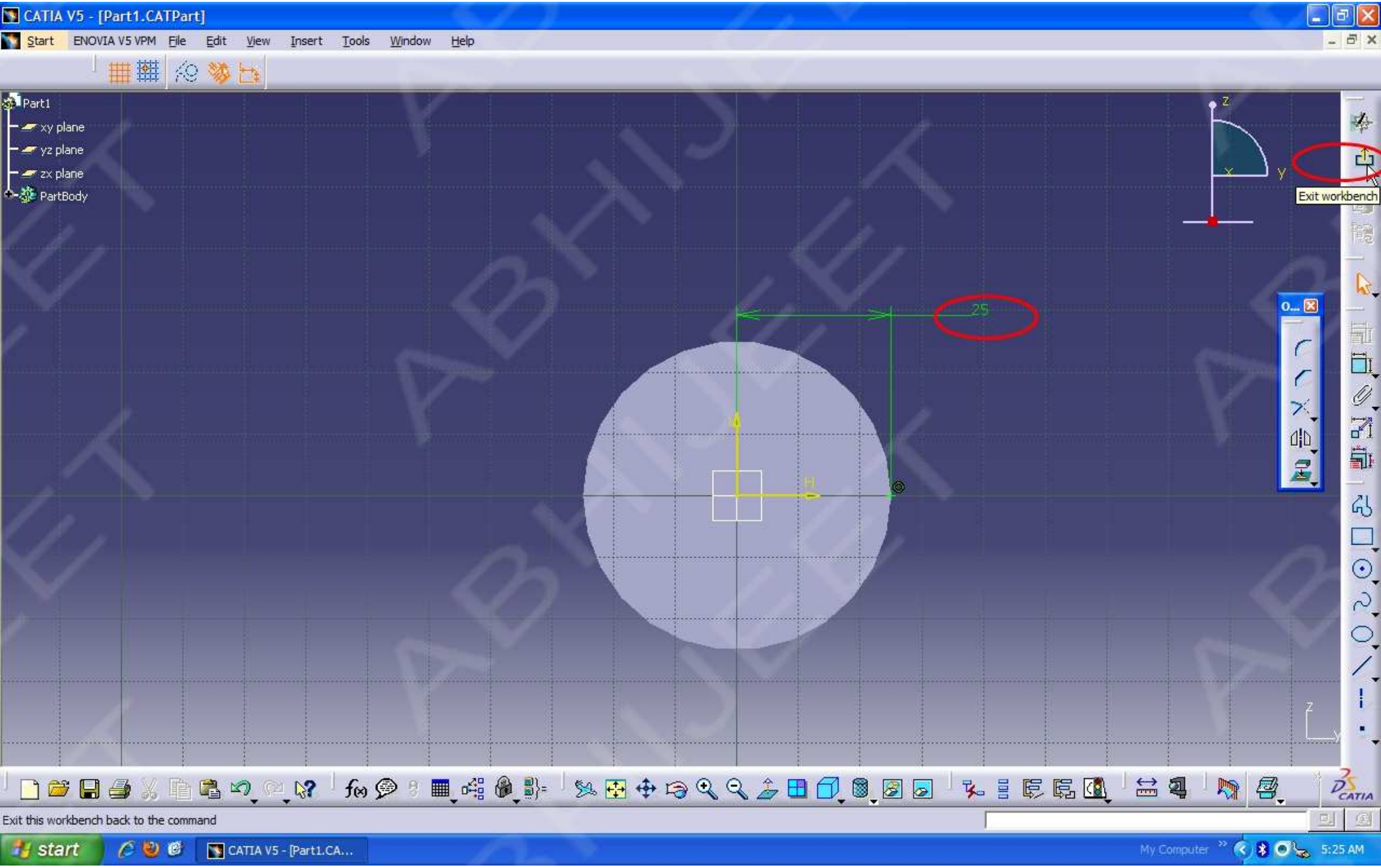
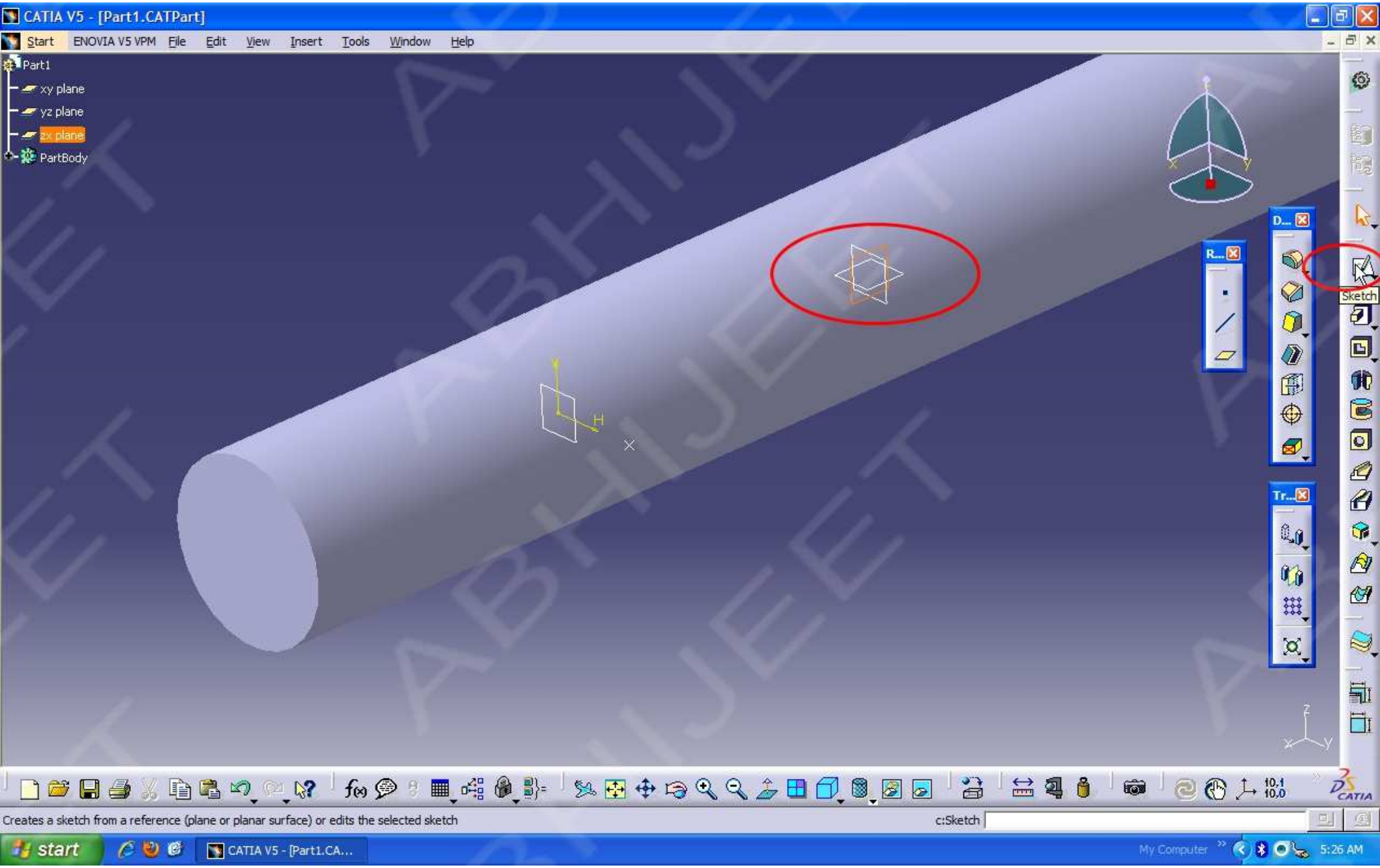

CATIA V5 - [Part1]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
D 50
Radius.3/Sketch.1/PartBody selected
start
CATIA V5 - [Part1]
My Computer
5:23 AM

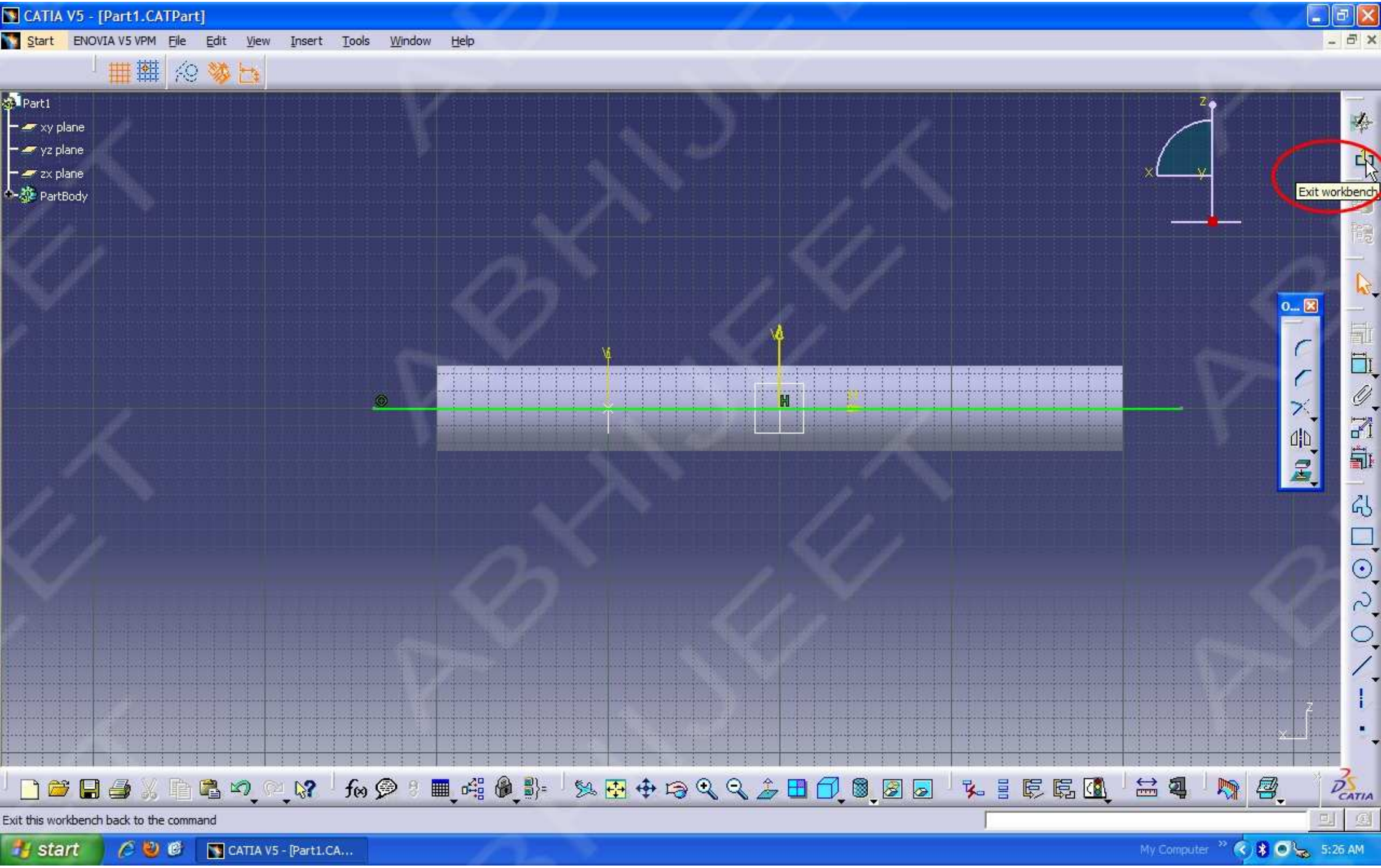

CATIA V5 - [Part1]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
LIM2
LIM1
D50
200
Pad Definition
First Limit
Type:
Dimension
Length:
200mm
Limit:
No selection
Profile/Surface
Selection:
Sketch.1
Thick
Mirrored extent
Reverse Direction
More>>
OK
Cancel
Preview
Enter desired data to modify the pad
Dim1
200mm
start
CATIA V5 - [Part1]
My Computer
5:23 AM

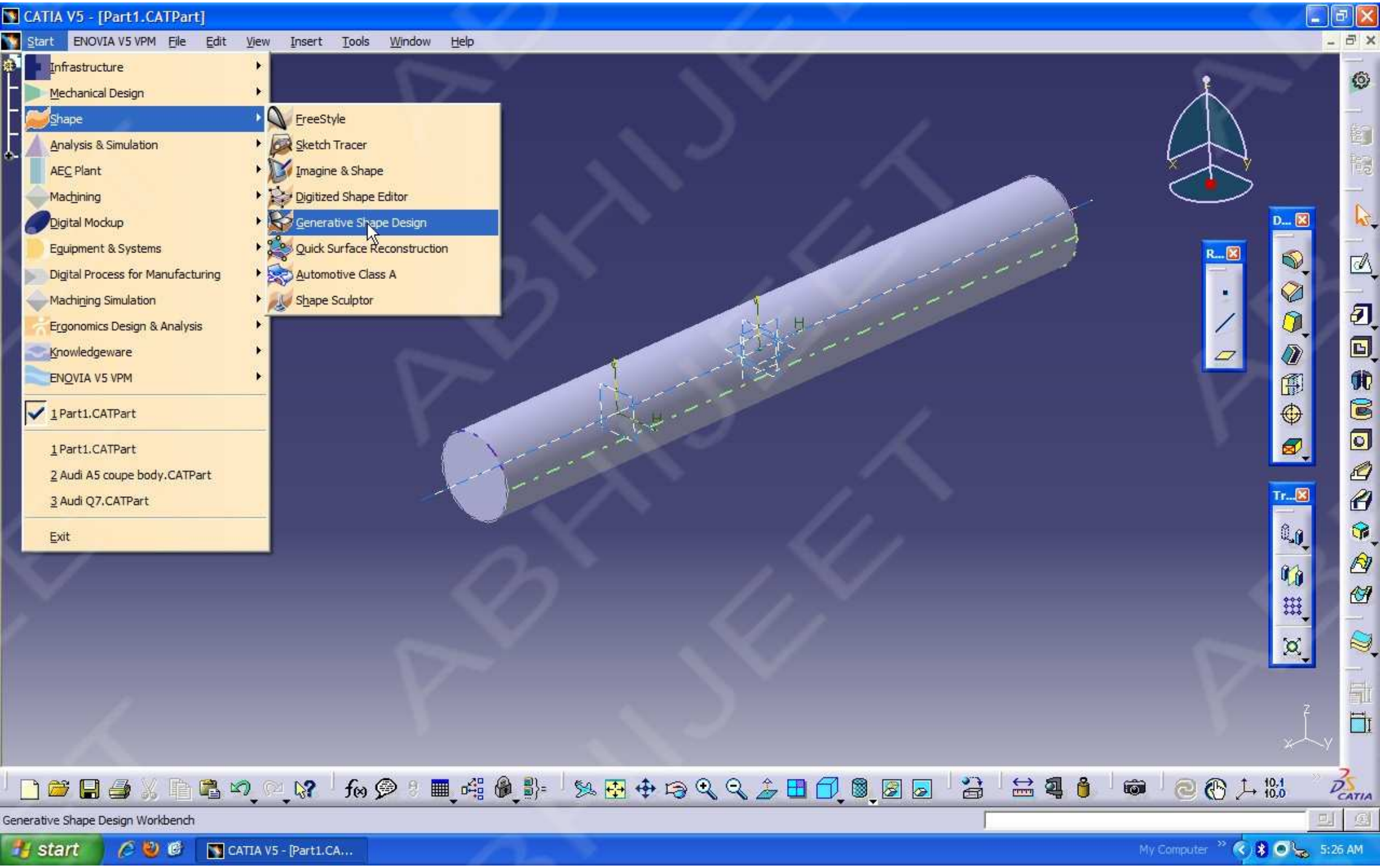

CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Reference
Offset
Plane Definition
Plane type: Offset from plane
Reference: yz plane
Offset: 100mm
Reverse Direction
Repeat object after OK
OK
Cancel
Preview
Press OK when completed
Offset 100mm
start
CATIA V5 - [Part1.CA...
My Computer
5:24 AM

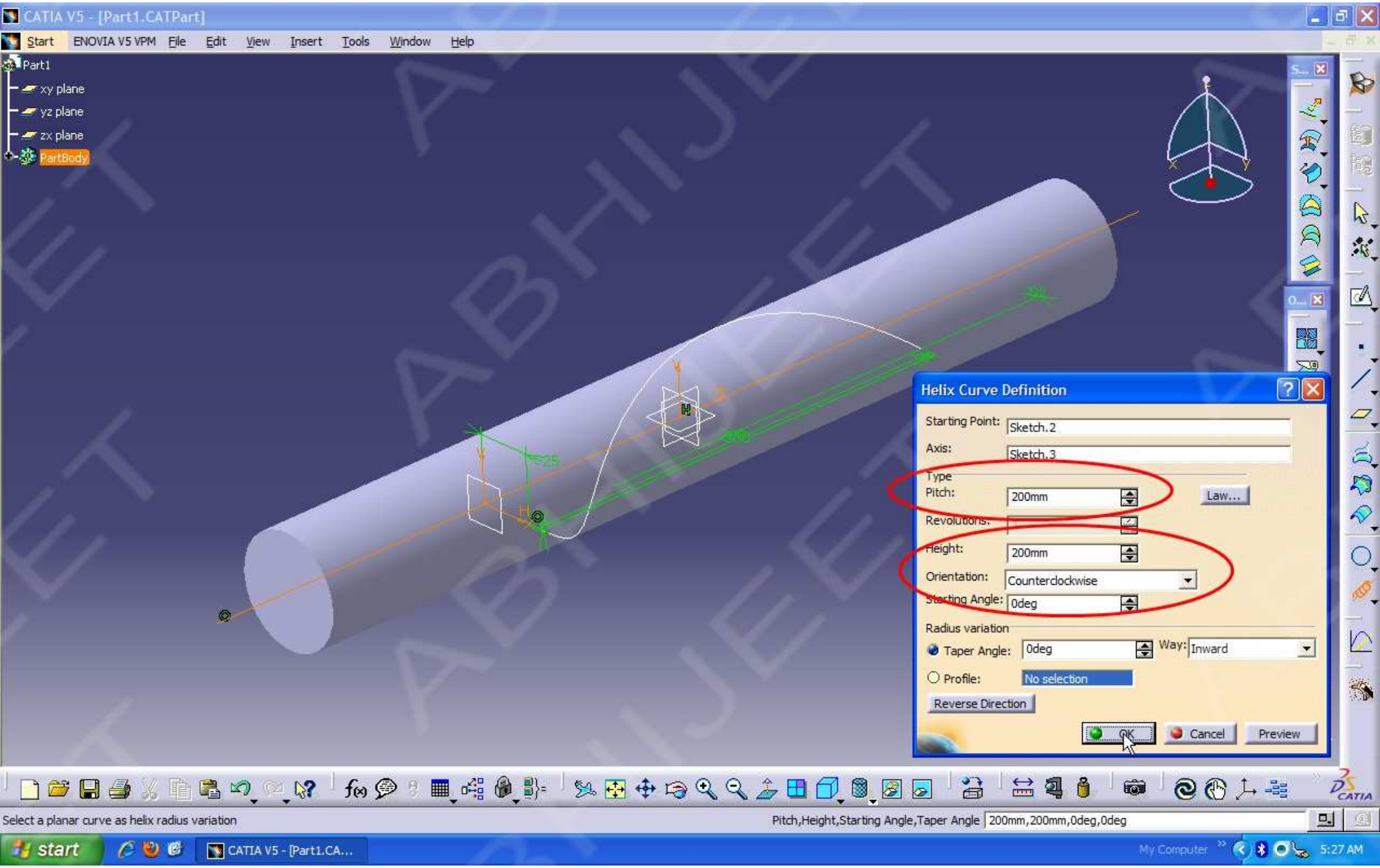

CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Sketch
Creates a sketch from a reference (plane or planar surface) or edits the selected sketch
c:Sketch
start
CATIA V5 - [Part1.CA...
My Computer
5:25 AM

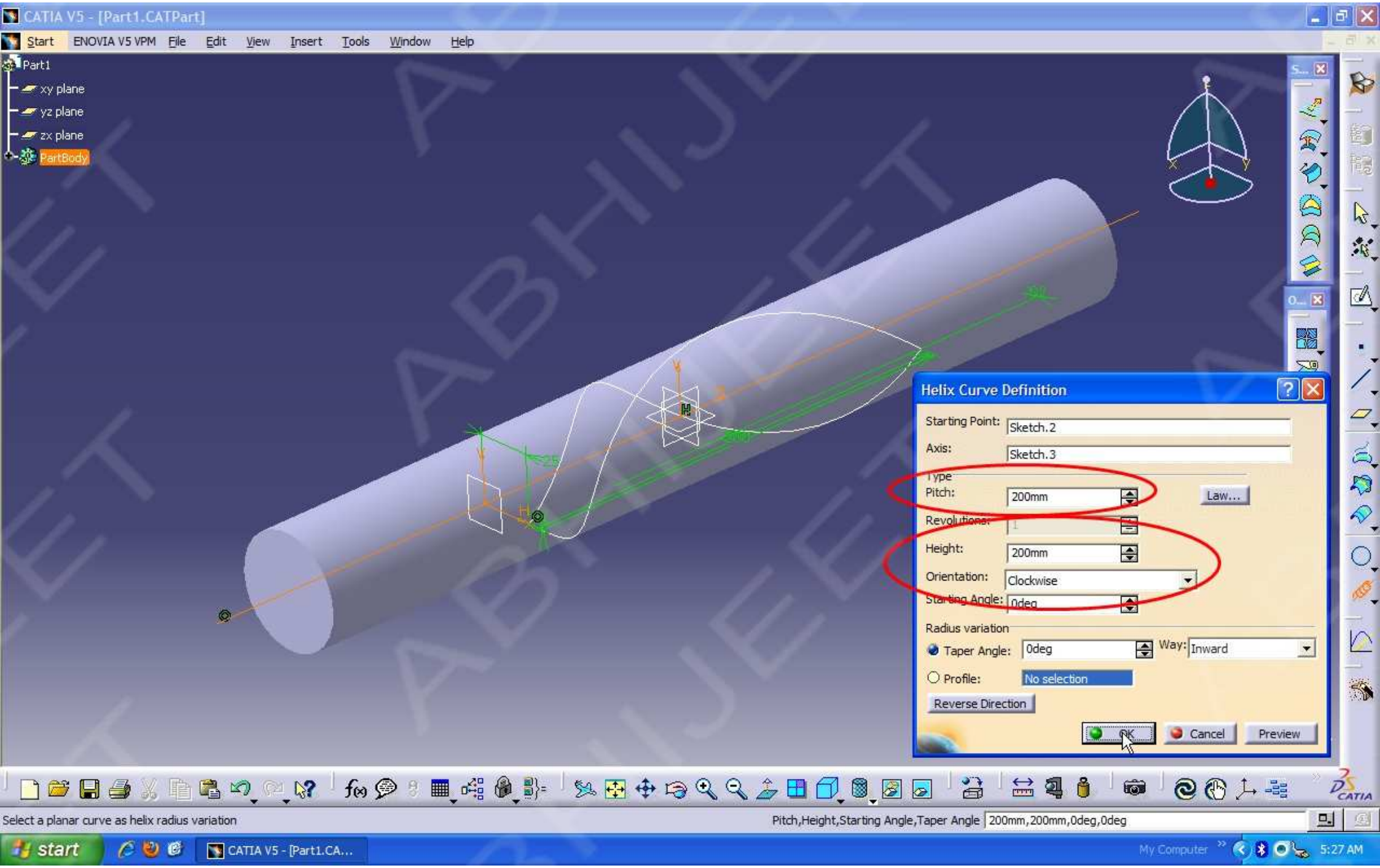

CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Exit workbench
25
Exit this workbench back to the command
start
CATIA V5 - [Part1.CA...
My Computer
5:25 AM

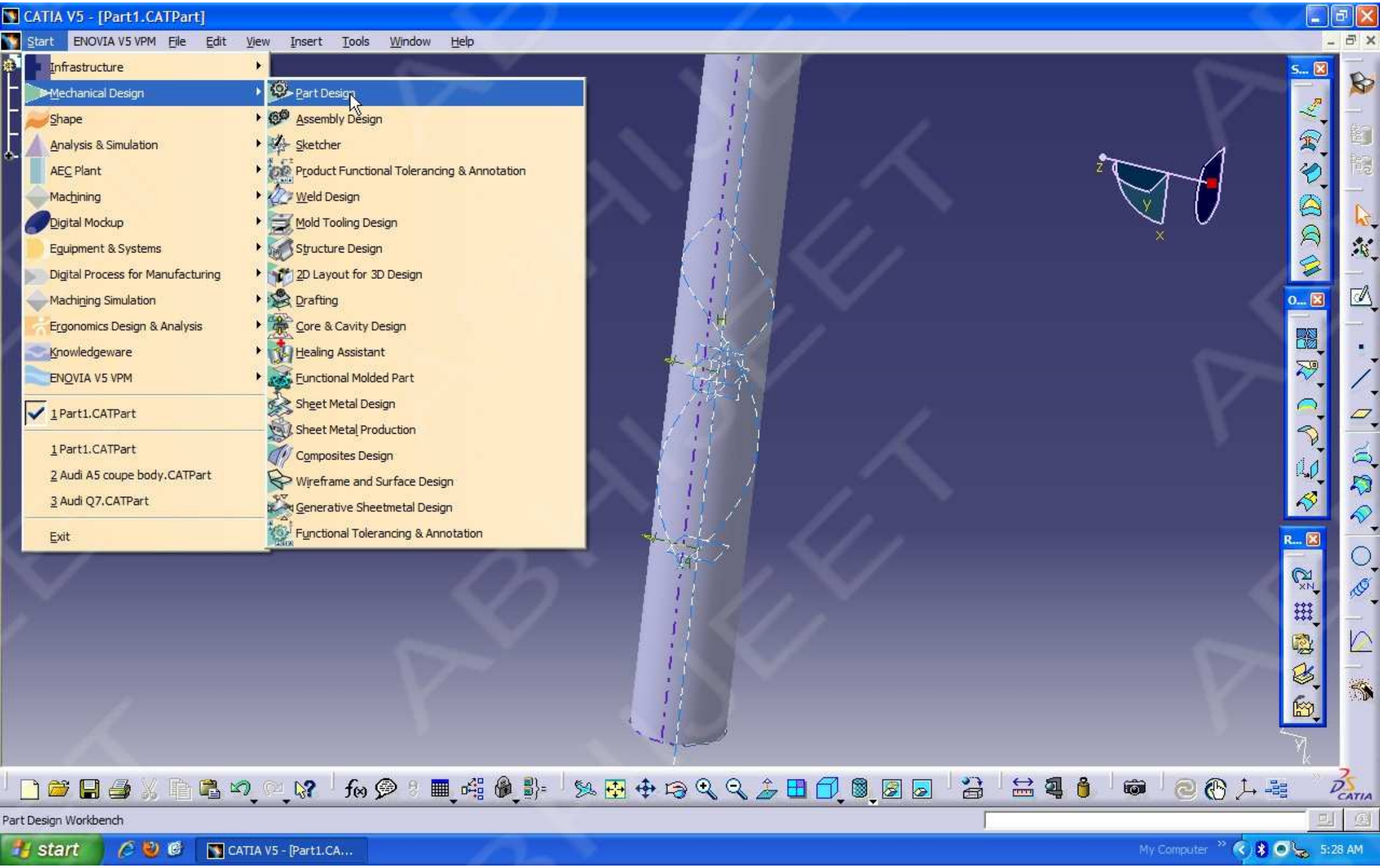

CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Sketch
Creates a sketch from a reference (plane or planar surface) or edits the selected sketch
c:Sketch
start
CATIA V5 - [Part1.CA...
My Computer
5:26 AM

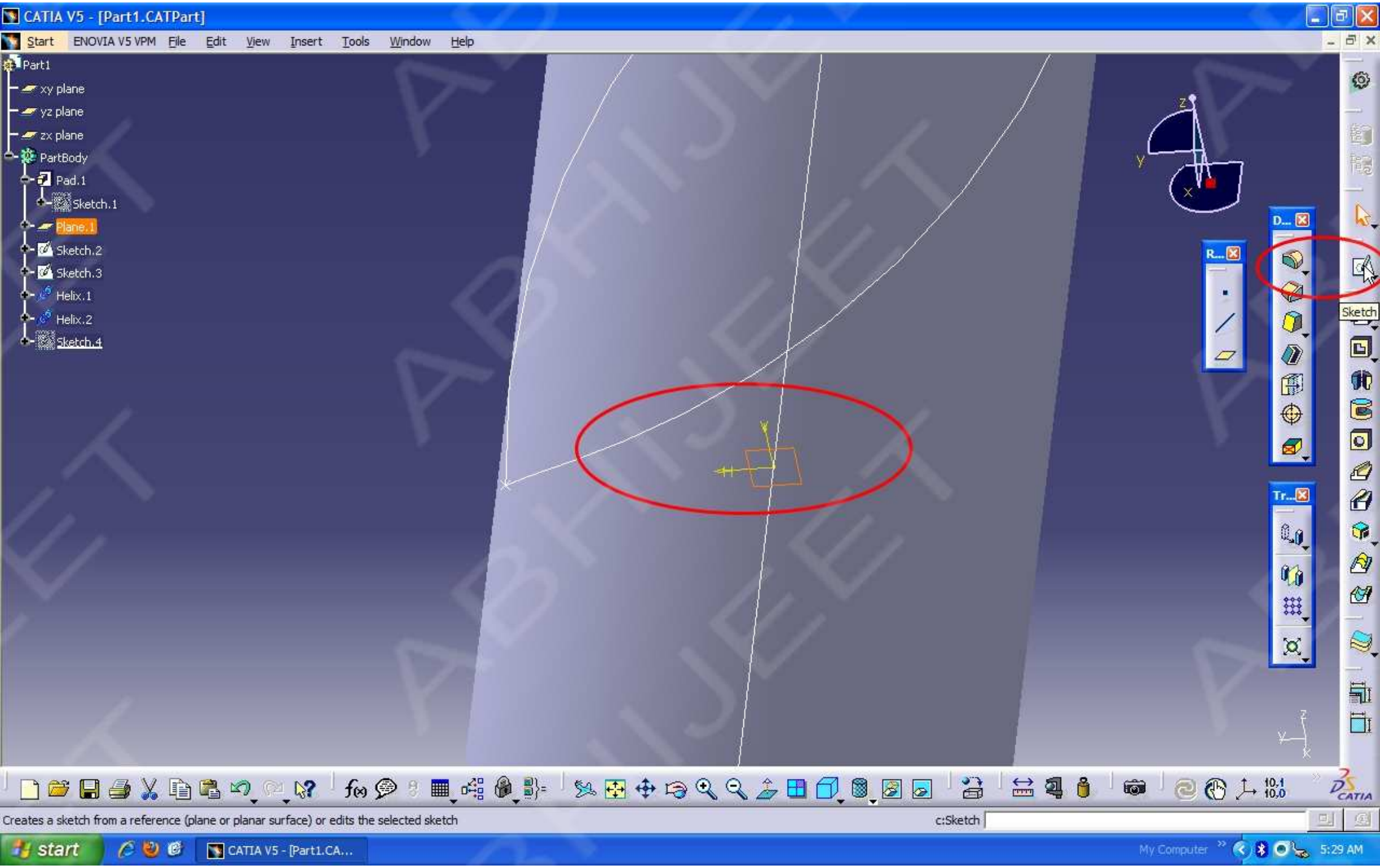

CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Exit workbench
Exit this workbench back to the command
start
CATIA V5 - [Part1.CA...
My Computer
5:26 AM

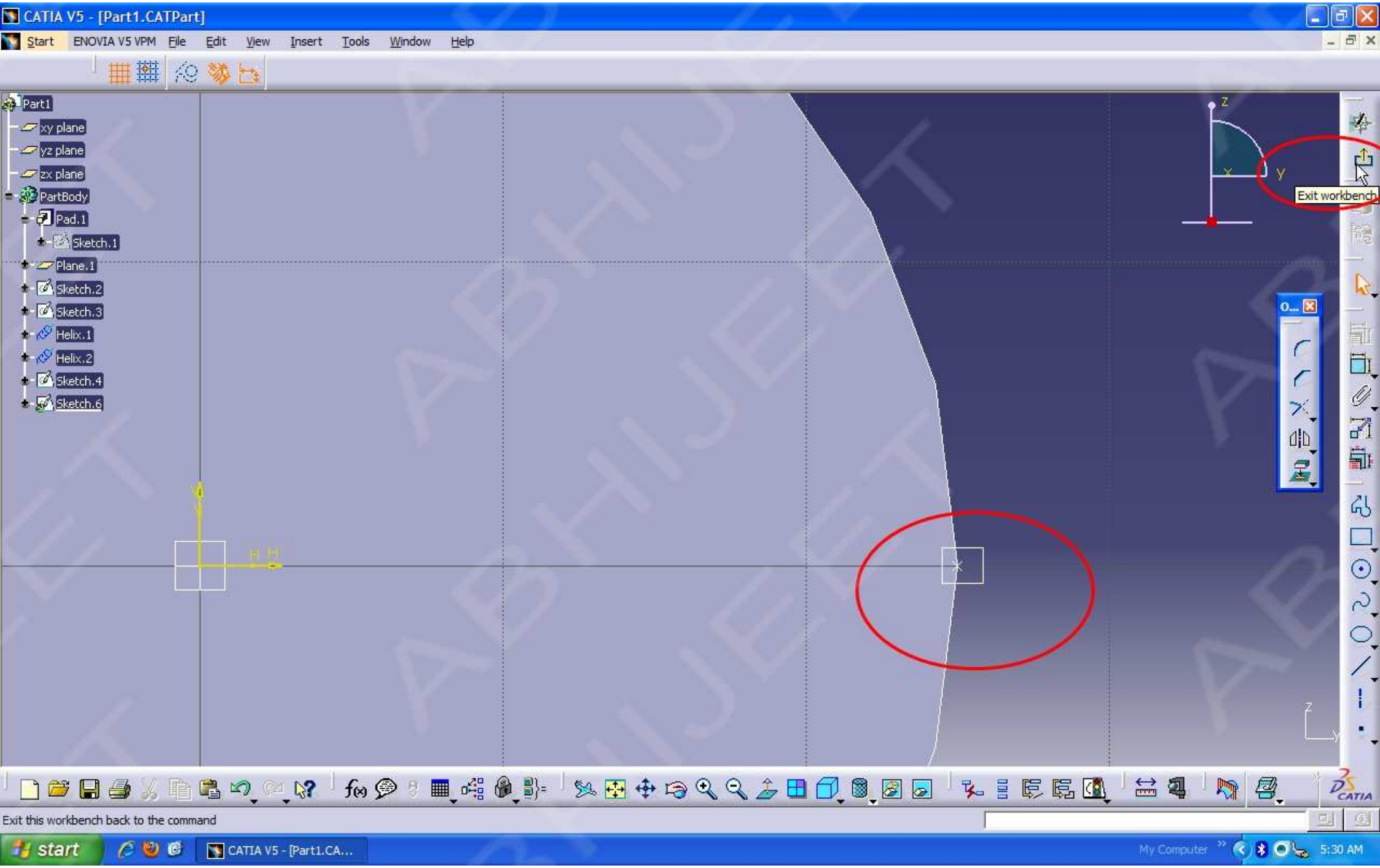

CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Infrastructure
Mechanical Design
Shape
Analysis & Simulation
AEC Plant
Machining
Digital Mockup
Equipment & Systems
Digital Process for Manufacturing
Machining Simulation
Ergonomics Design & Analysis
Knowledgeware
ENOVIA V5 VPM
1 Part1.CATPart
1 Part1.CATPart
2 Audi A5 coupe body.CATPart
3 Audi Q7.CATPart
Exit
FreeStyle
Sketch Tracer
Imagine & Shape
Digitized Shape Editor
Generative Shape Design
Quick Surface Reconstruction
Automotive Class A
Shape Sculptor
Generative Shape Design Workbench
start
CATIA V5 - [Part1.CA...
My Computer
5:26 AM

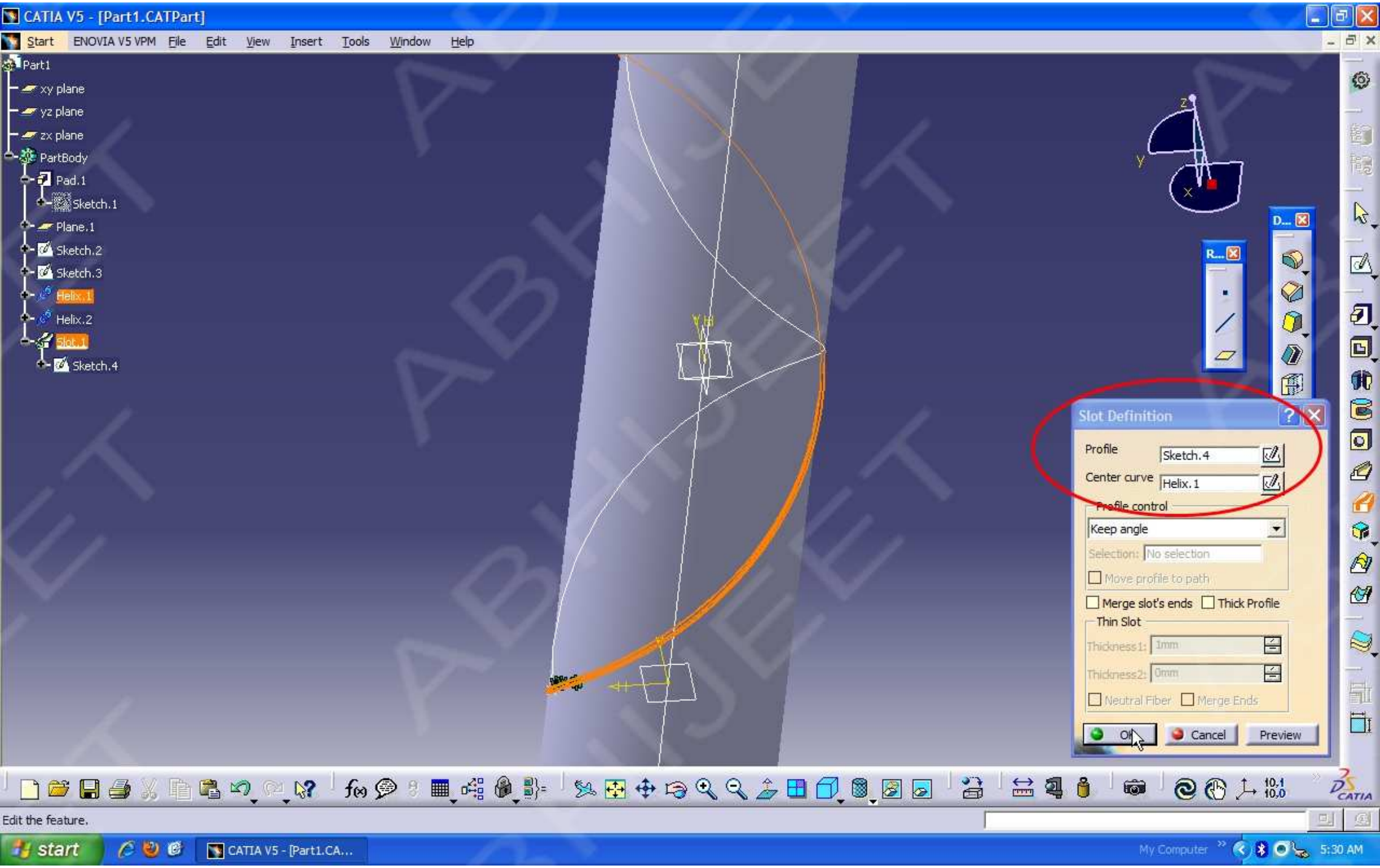

CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Helix Curve Definition
Starting Point:
Sketch.2
Axis:
Sketch.3
Type
Pitch:
200mm
Law...
Revolutions:
Height:
200mm
Orientation:
Counterclockwise
Starting Angle:
0deg
Radius variation
Taper Angle:
0deg
Way:
Inward
Profile:
No selection
Reverse Direction
OK
Cancel
Preview
Select a planar curve as helix radius variation
Pitch,Height,Starting Angle,Taper Angle
200mm,200mm,0deg,0deg
start
CATIA V5 - [Part1.CA...
My Computer
5:27 AM

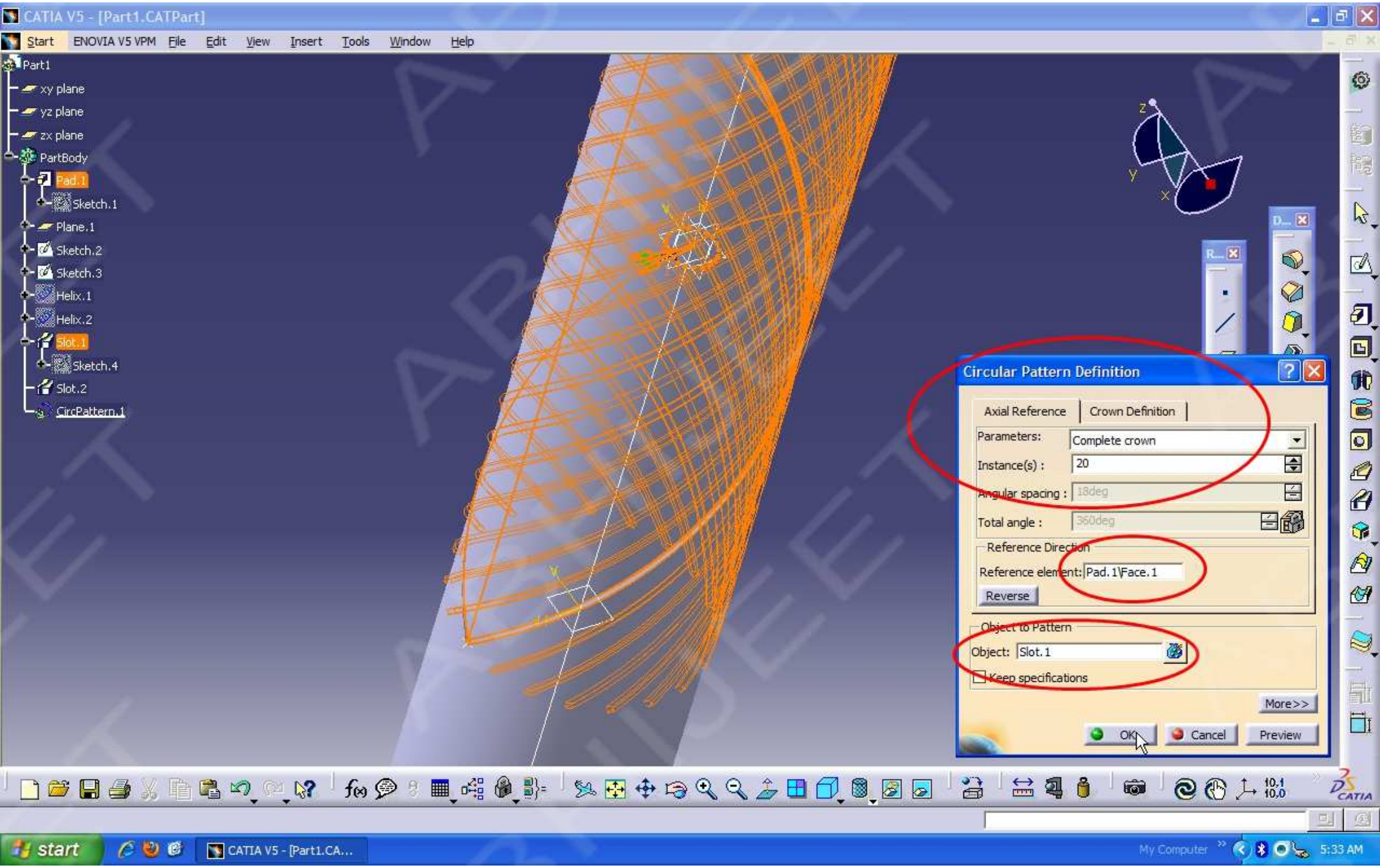

CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Helix Curve Definition
Starting Point:
Sketch.2
Axis:
Sketch.3
Type
Pitch:
200mm
Law...
Revolutions:
1
Height:
200mm
Orientation:
Clockwise
Starting Angle:
0deg
Radius variation
Taper Angle:
0deg
Way:
Inward
Profile:
No selection
Reverse Direction
OK
Cancel
Preview
Select a planar curve as helix radius variation
Pitch,Height,Starting Angle,Taper Angle
200mm,200mm,0deg,0deg
start
CATIA V5 - [Part1.CA...
My Computer
5:27 AM

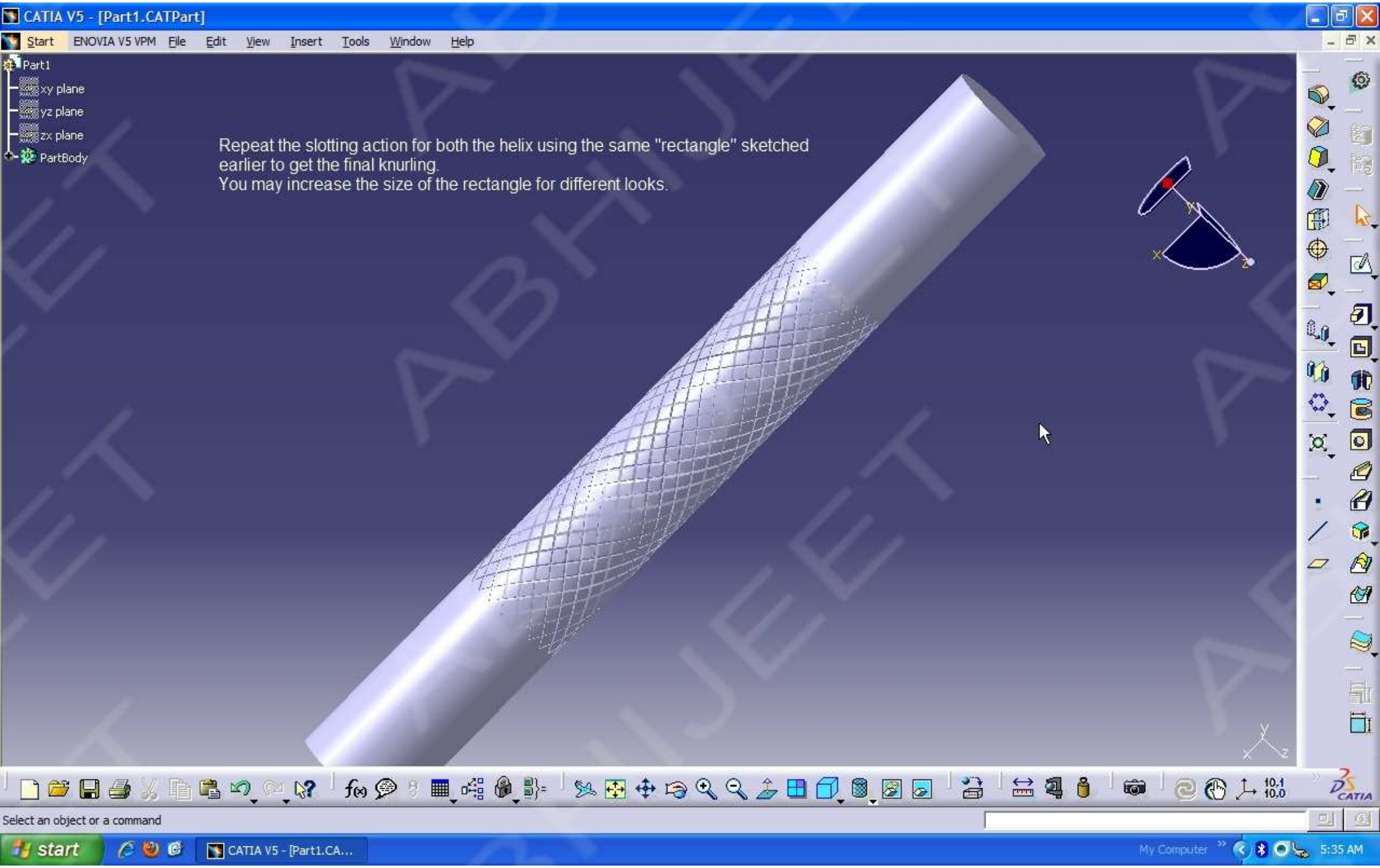

CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Infrastructure
Mechanical Design
Shape
Analysis & Simulation
AEC Plant
Machining
Digital Mockup
Equipment & Systems
Digital Process for Manufacturing
Machining Simulation
Ergonomics Design & Analysis
Knowledgeware
ENOVIA V5 VPM
1 Part1.CATPart
1 Part1.CATPart
2 Audi A5 coupe body.CATPart
3 Audi Q7.CATPart
Exit
Part Design
Assembly Design
Sketcher
Product Functional Tolerancing & Annotation
Weld Design
Mold Tooling Design
Structure Design
2D Layout for 3D Design
Drafting
Core & Cavity Design
Healing Assistant
Functional Molded Part
Sheet Metal Design
Sheet Metal Production
Composites Design
Wireframe and Surface Design
Generative Sheetmetal Design
Functional Tolerancing & Annotation
Part Design Workbench
start
CATIA V5 - [Part1.CA...
My Computer
5:28 AM


CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Pad.1
Sketch.1
Plane.1
Sketch.2
Sketch.3
Helix.1
Helix.2
Sketch.4
Sketch
Creates a sketch from a reference (plane or planar surface) or edits the selected sketch
c:Sketch
start
CATIA V5 - [Part1.CA...
My Computer
5:29 AM


CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Pad.1
Sketch.1
Plane.1
Sketch.2
Sketch.3
Helix.1
Helix.2
Sketch.4
Sketch.6
Exit workbench
Exit this workbench back to the command
start
CATIA V5 - [Part1.CA...
My Computer
5:30 AM


CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Pad.1
Sketch.1
Plane.1
Sketch.2
Sketch.3
Helix.1
Helix.2
Slot.1
Sketch.4
Slot Definition
Profile
Sketch.4
Center curve
Helix.1
Profile control
Keep angle
Selection:
No selection
Move profile to path
Merge slot's ends
Thick Profile
Thin Slot
Thickness1:
1mm
Thickness2:
0mm
Neutral Fiber
Merge Ends
OK
Cancel
Preview
Edit the feature.
start
CATIA V5 - [Part1.CA...
My Computer
5:30 AM


CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Pad.1
Sketch.1
Plane.1
Sketch.2
Sketch.3
Helix.1
Helix.2
Slot.1
Sketch.4
Slot.2
CircPattern.1
Circular Pattern Definition
Axial Reference
Crown Definition
Parameters:
Complete crown
Instance(s) :
20
Angular spacing :
18deg
Total angle :
360deg
Reference Direction
Reference element:
Pad.1\Face.1
Reverse
Object to Pattern
Object:
Slot.1
Keep specifications
More>>
OK
Cancel
Preview
start
CATIA V5 - [Part1.CA...
My Computer
5:33 AM


CATIA V5 - [Part1.CATPart]
Start
ENOVIA V5 VPM
File
Edit
View
Insert
Tools
Window
Help
Part1
xy plane
yz plane
zx plane
PartBody
Repeat the slotting action for both the helix using the same "rectangle" sketched earlier to get the final knurling.
You may increase the size of the rectangle for different looks.
Select an object or a command
start
CATIA V5 - [Part1.CA...
My Computer
5:35 AM