



TRƯỜNG ĐẠI HỌC NÔNG LÂM TP. HỒ CHÍ MINH
KHOA CƠ KHÍ – CÔNG NGHỆ



Bài 3

Features



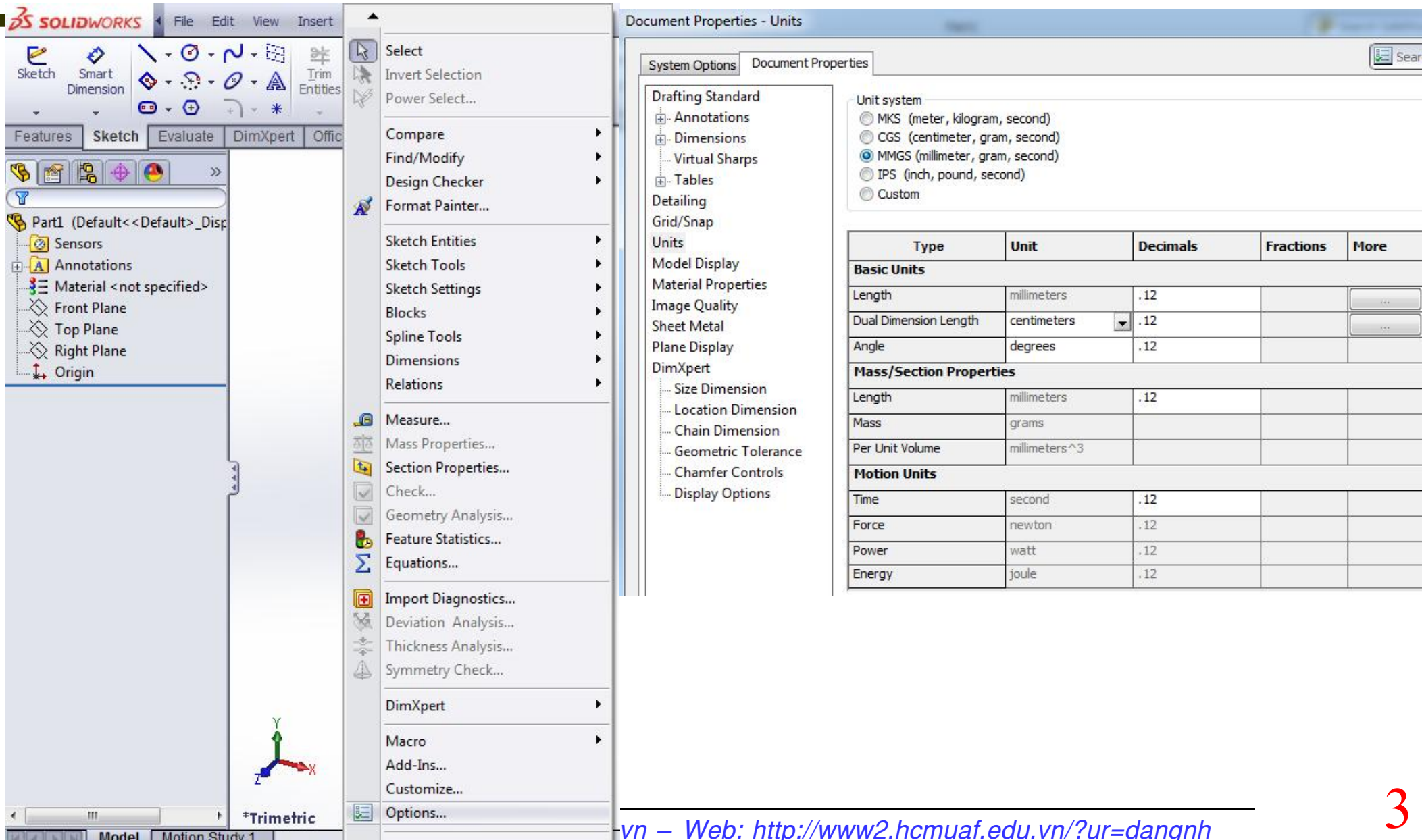
Nguyễn Hải Đăng

<http://www2.hcmuaf.edu.vn/?ur=dangnh>

1. Objectives

- ✓ Learn about the Features Tools
- ✓ Learn how to draw 3D Objects
- ✓ Learn how to use Features tools to create objects
- ✓ Editing a Features
- ✓ Learn how to draw threads and how to size both internal and external threads.
- ✓ Learn about Reference Planes

2. Metric Unit



Document Properties - Units

System Options | Document Properties

Drafting Standard

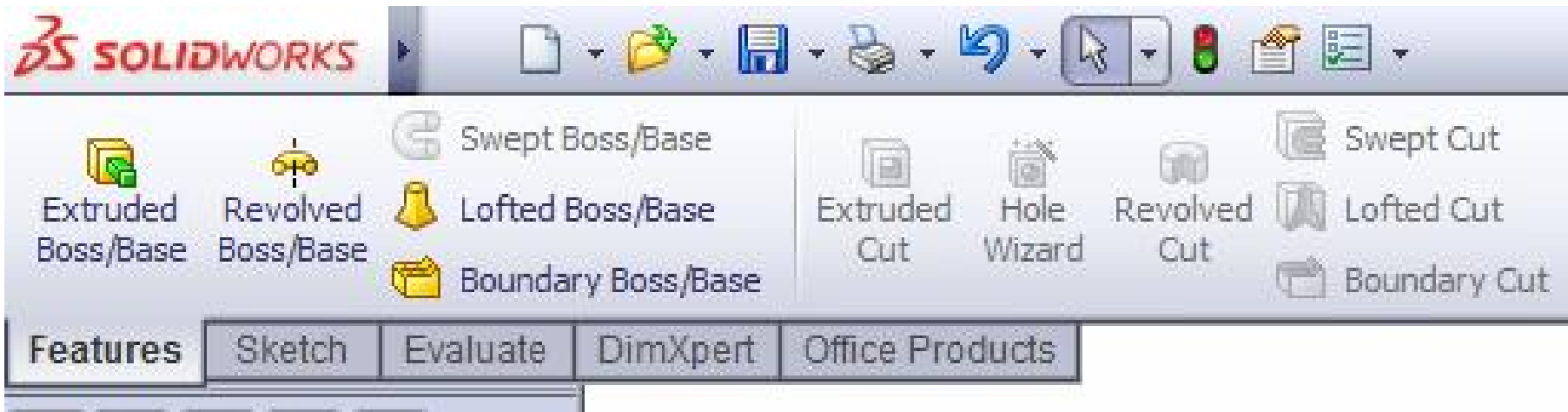
- Annotations
- Dimensions
- Virtual Sharps
- Tables
- Detailing
- Grid/Snap
- Units
- Model Display
- Material Properties
- Image Quality
- Sheet Metal
- Plane Display
- DimXpert
- Size Dimension
- Location Dimension
- Chain Dimension
- Geometric Tolerance
- Chamfer Controls
- Display Options

Unit system

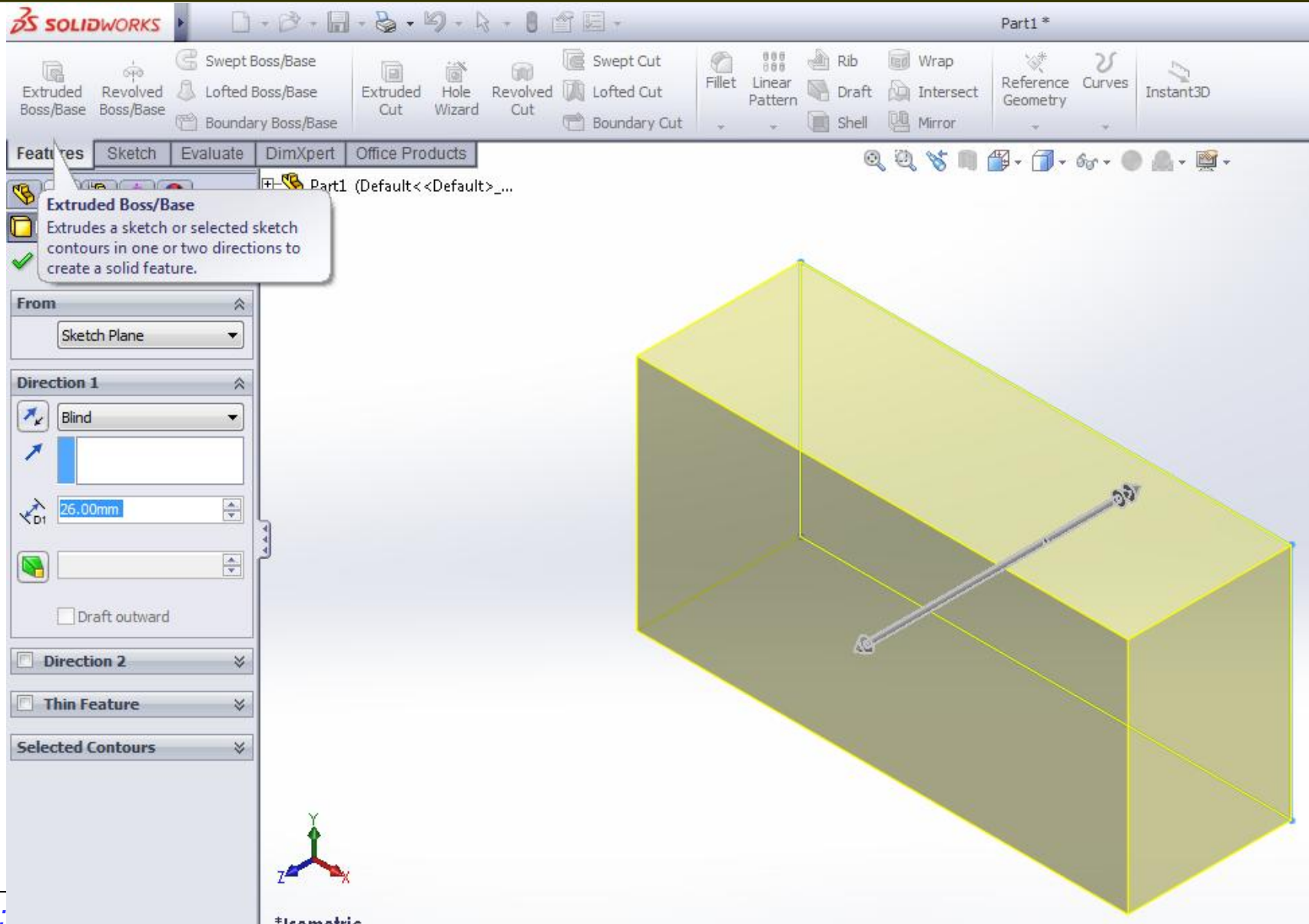
- ☐ MKS (meter, kilogram, second)
- ☐ CGS (centimeter, gram, second)
- ☒ MMGS (millimeter, gram, second)
- ☐ IPS (inch, pound, second)
- ☐ Custom

Type	Unit	Decimals	Fractions	More
Basic Units				
Length	millimeters	.12		...
Dual Dimension Length	centimeters	.12		...
Angle	degrees	.12		
Mass/Section Properties				
Length	millimeters	.12		
Mass	grams			
Per Unit Volume	millimeters^3			
Motion Units				
Time	second	.12		
Force	newton	.12		
Power	watt	.12		
Energy	joule	.12		

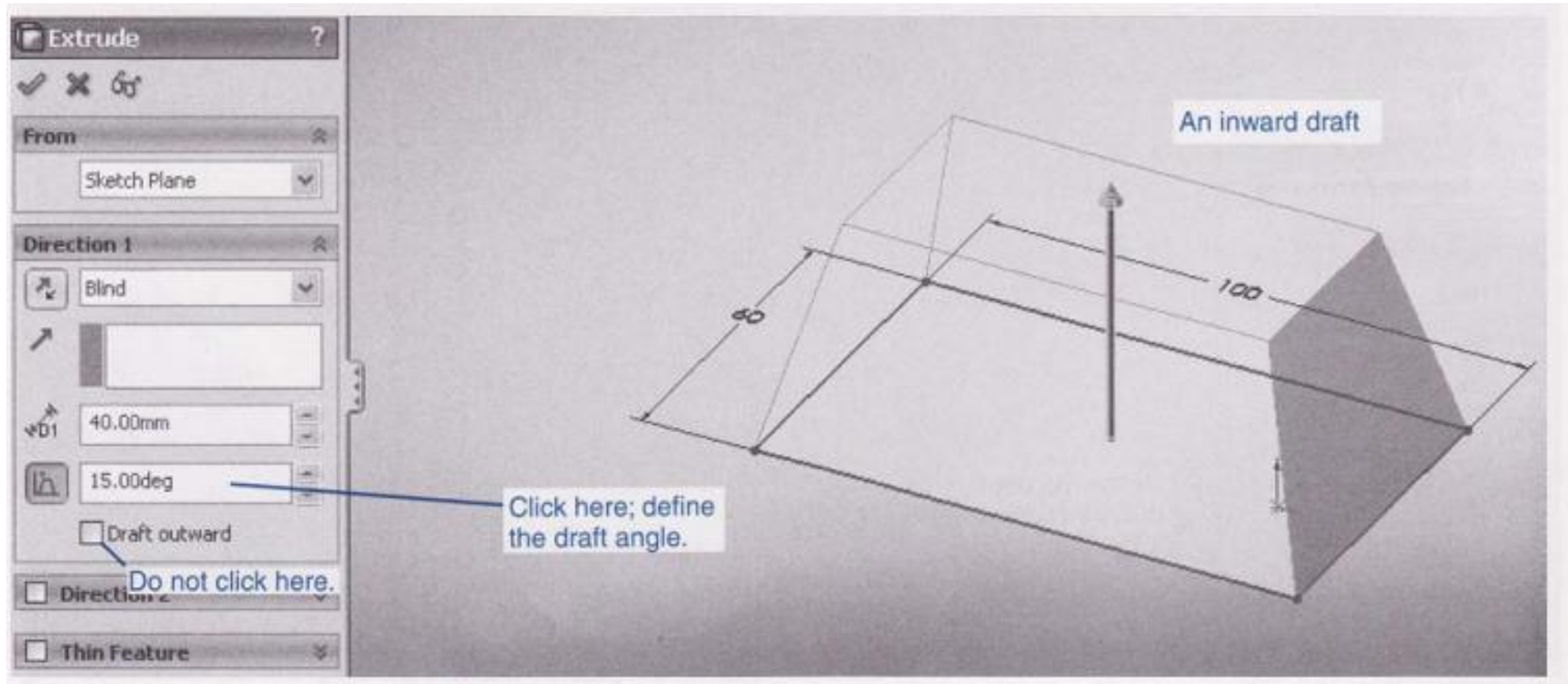
3. Features Tools



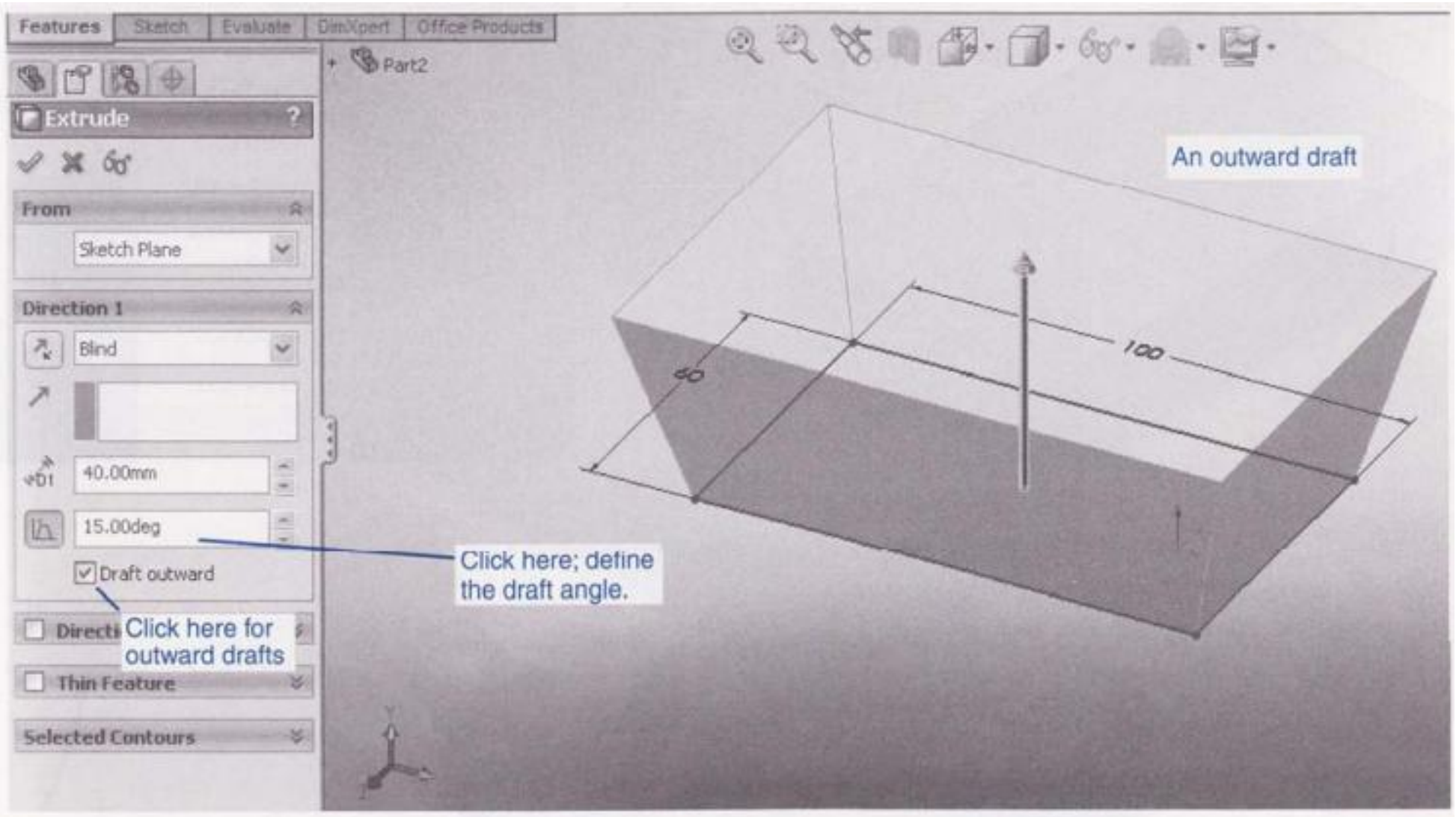
4. Extruded Boss/Base (1)



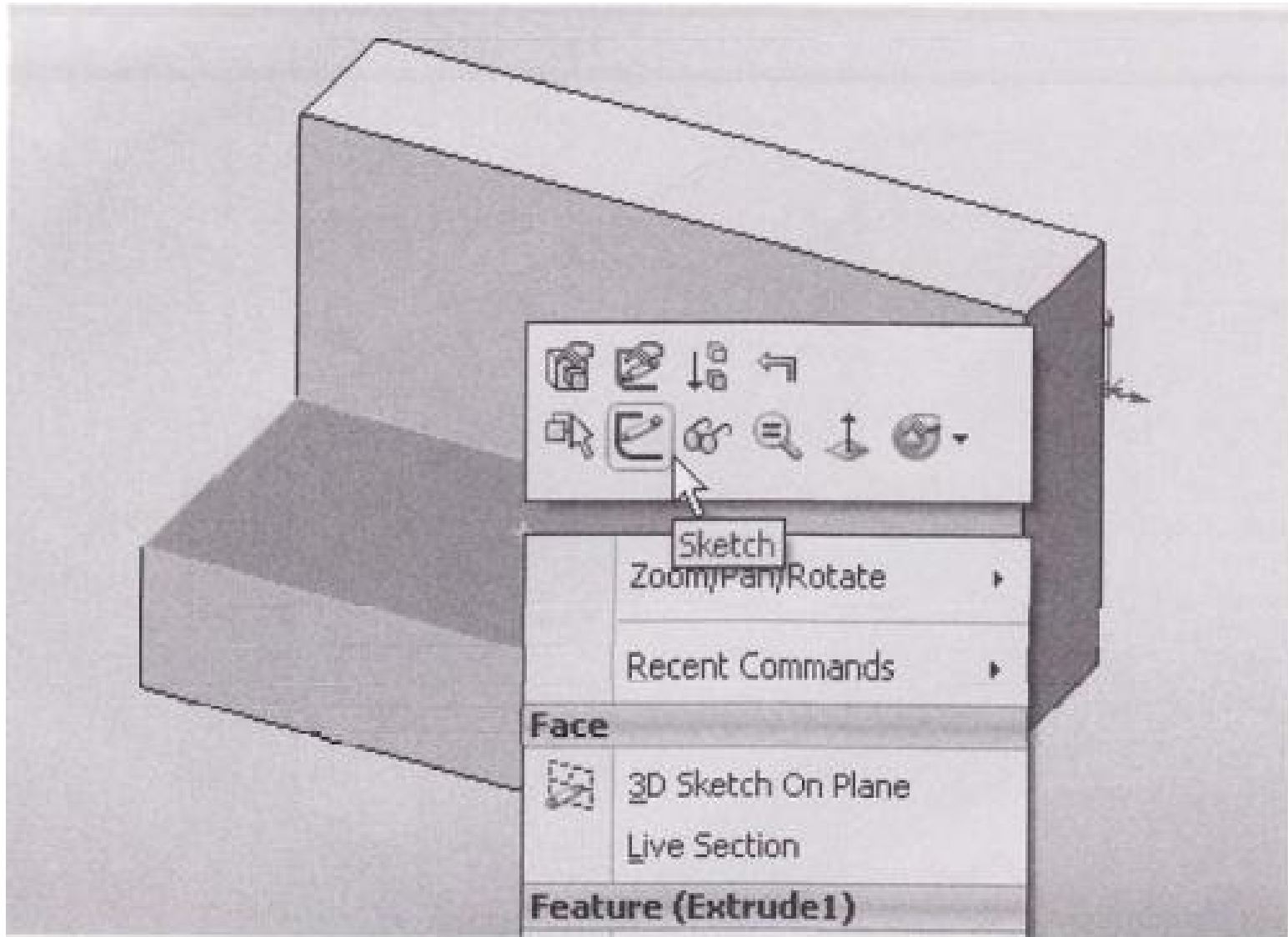
4. Extruded Boss/Base (2)



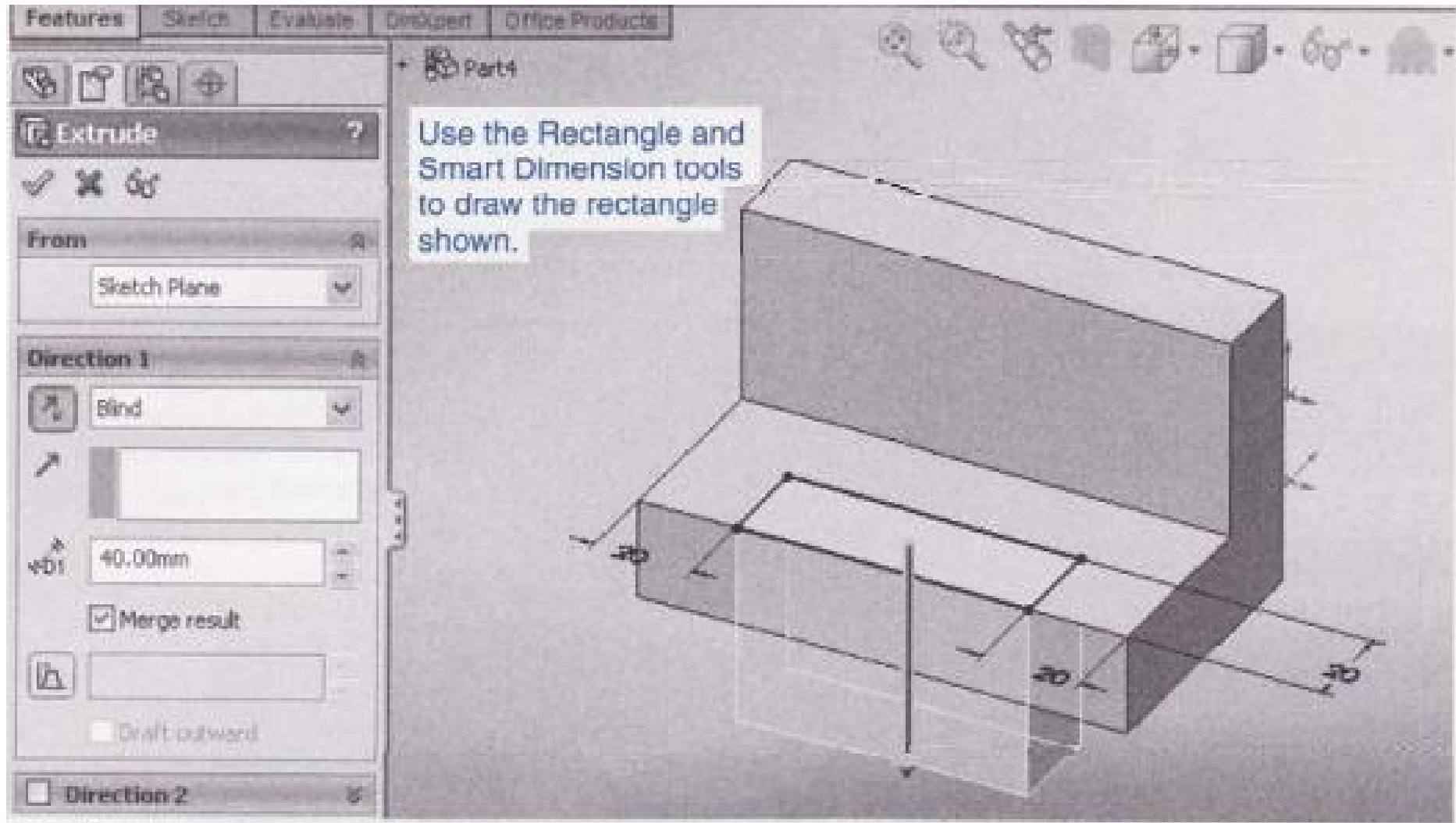
4. Extruded Boss/Base (3)



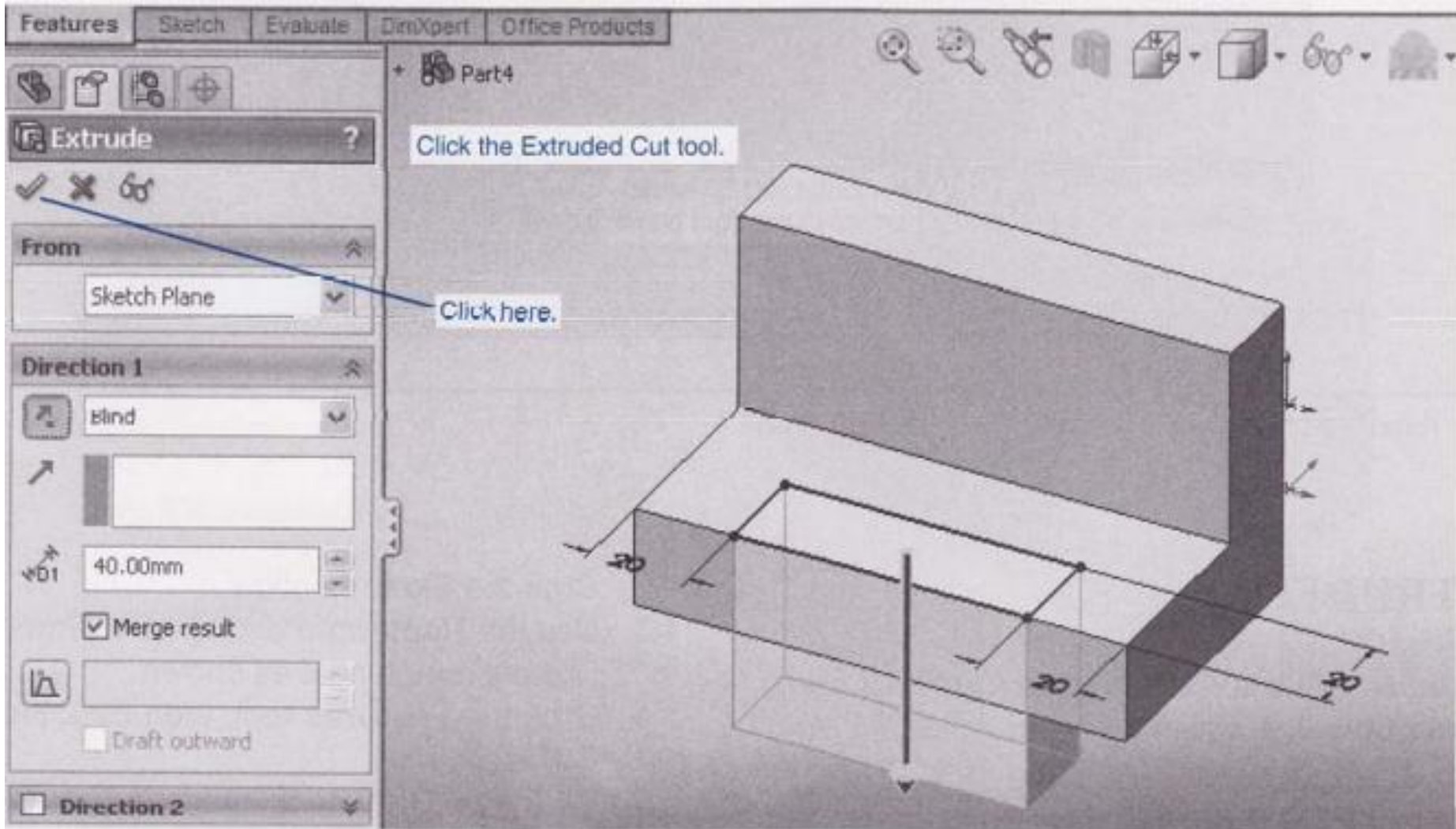
5. Extrude Cut (1)



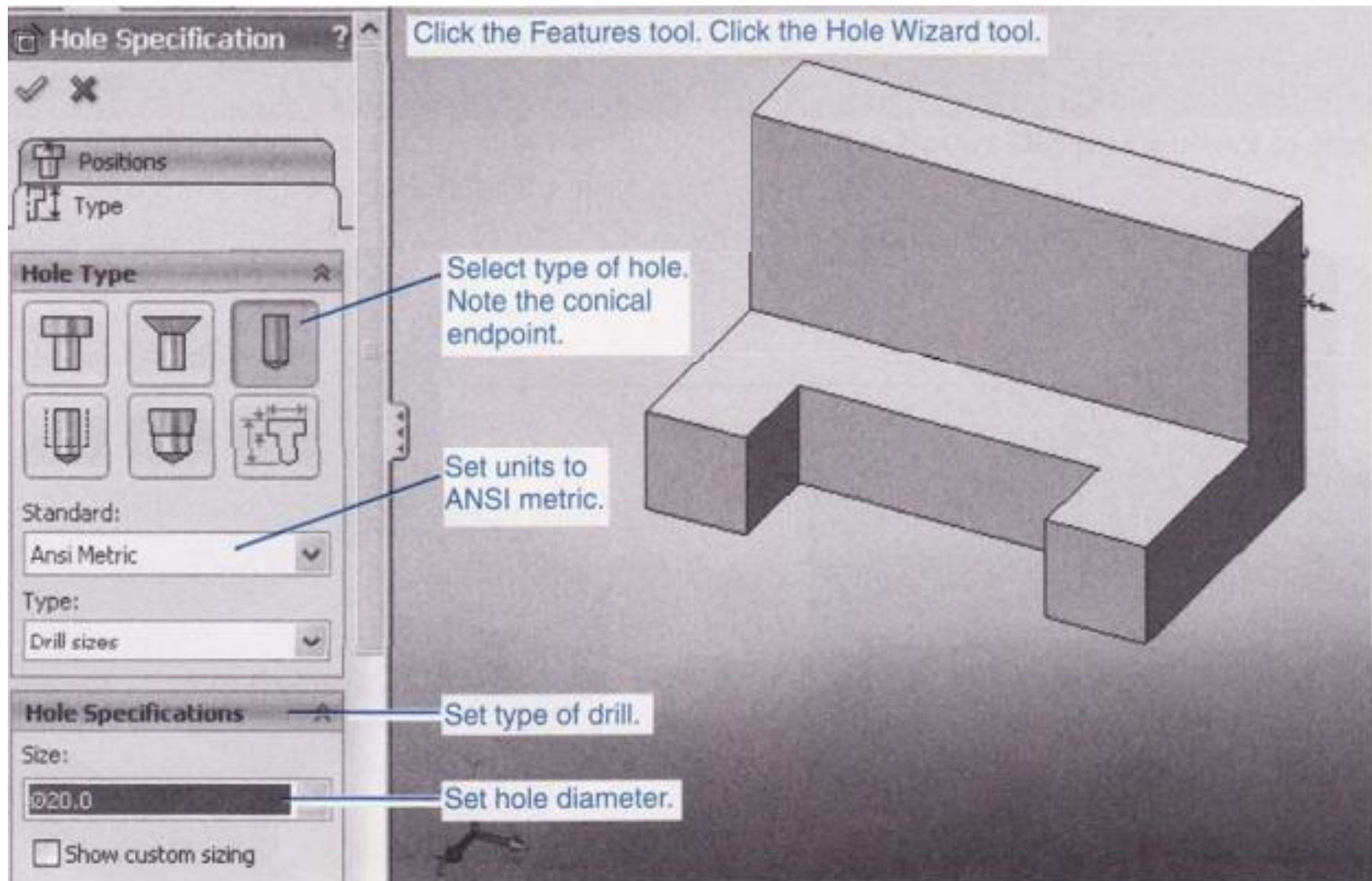
5. Extrude Cut (2)



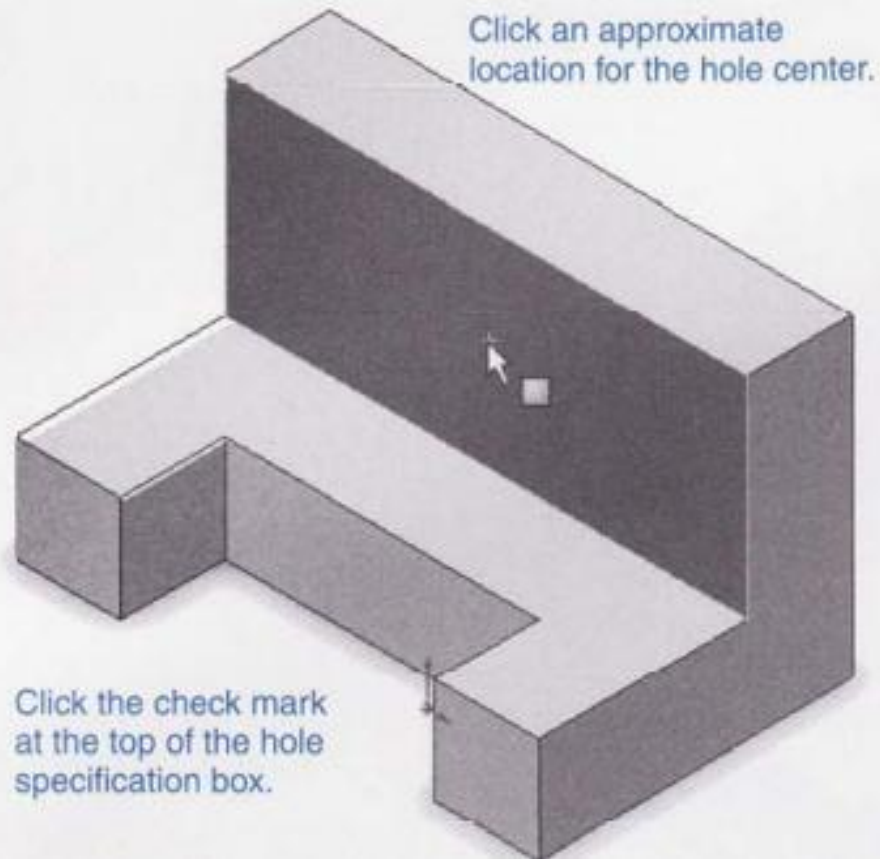
5. Extrude Cut (3)



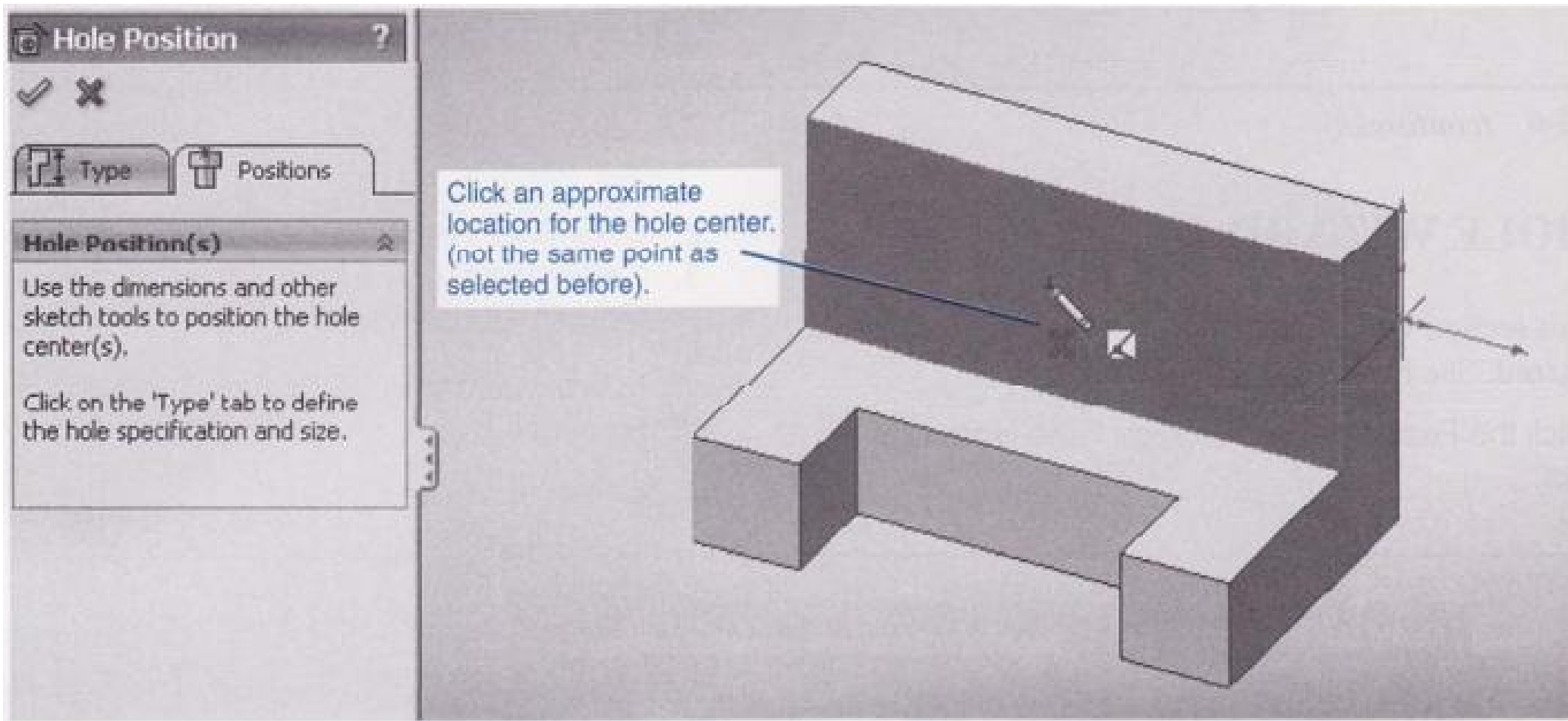
6. Hole Wizard (1)



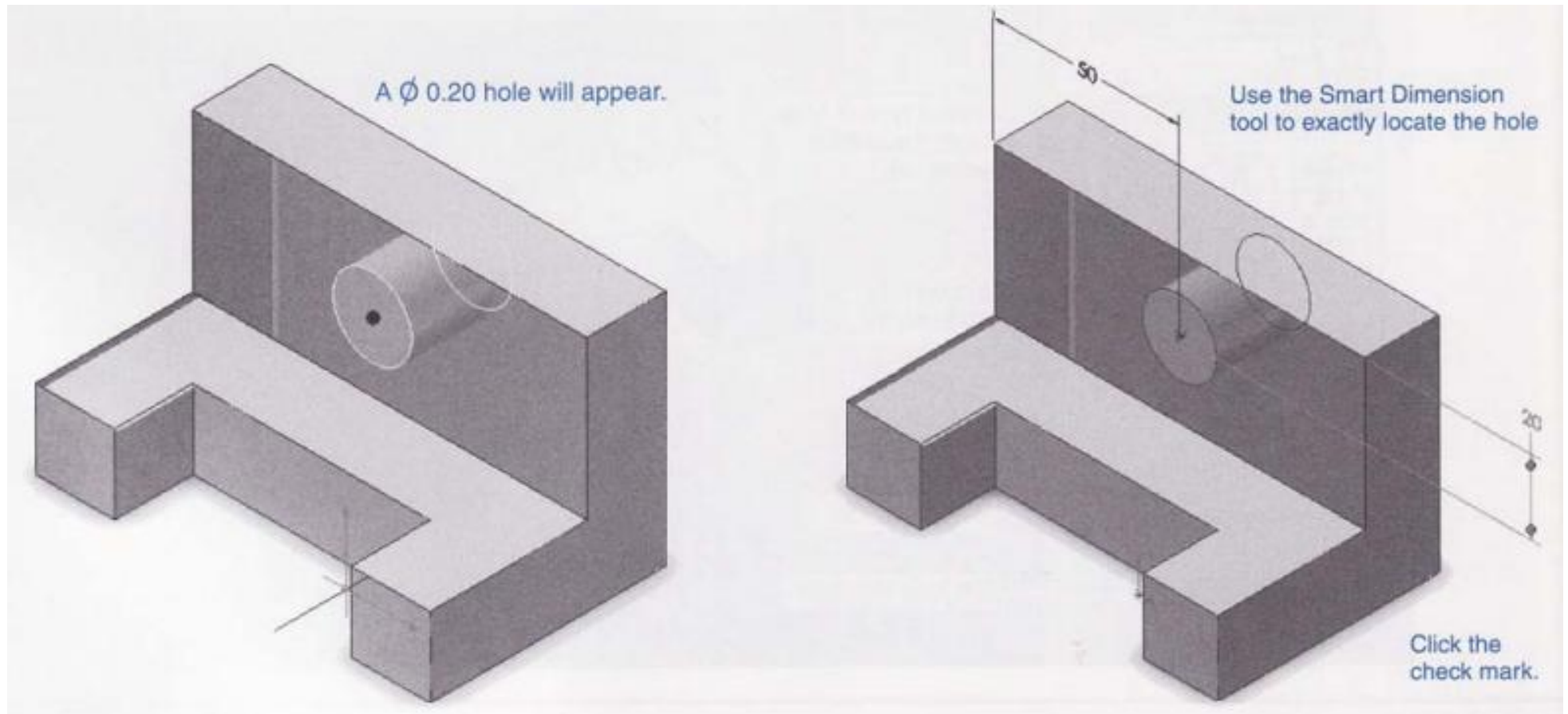
6. Hole Wizard (2)



6. Hole Winzard (3)



6. Hole Wizard (4)



7. Revolve – Sweep – Loft

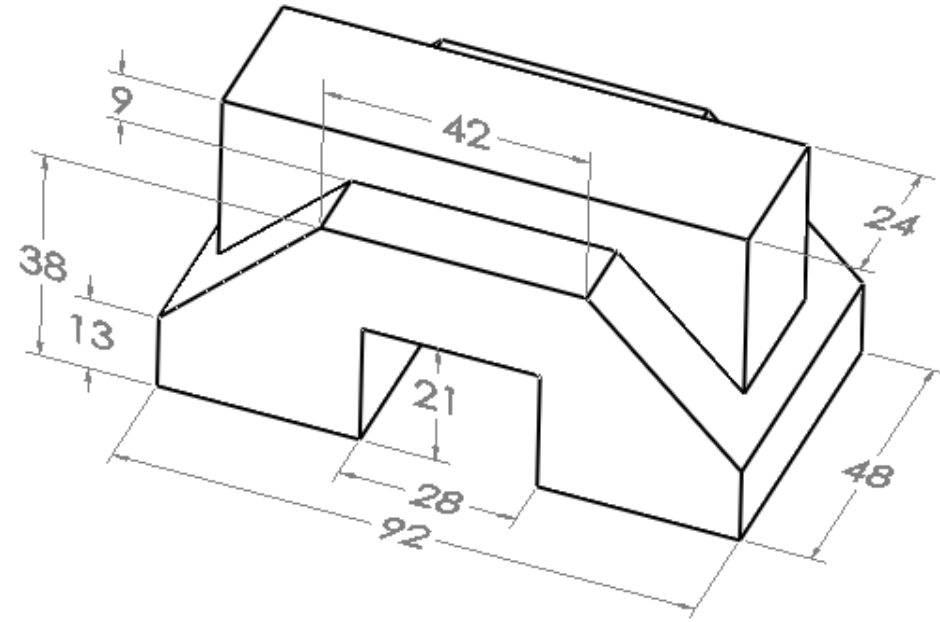
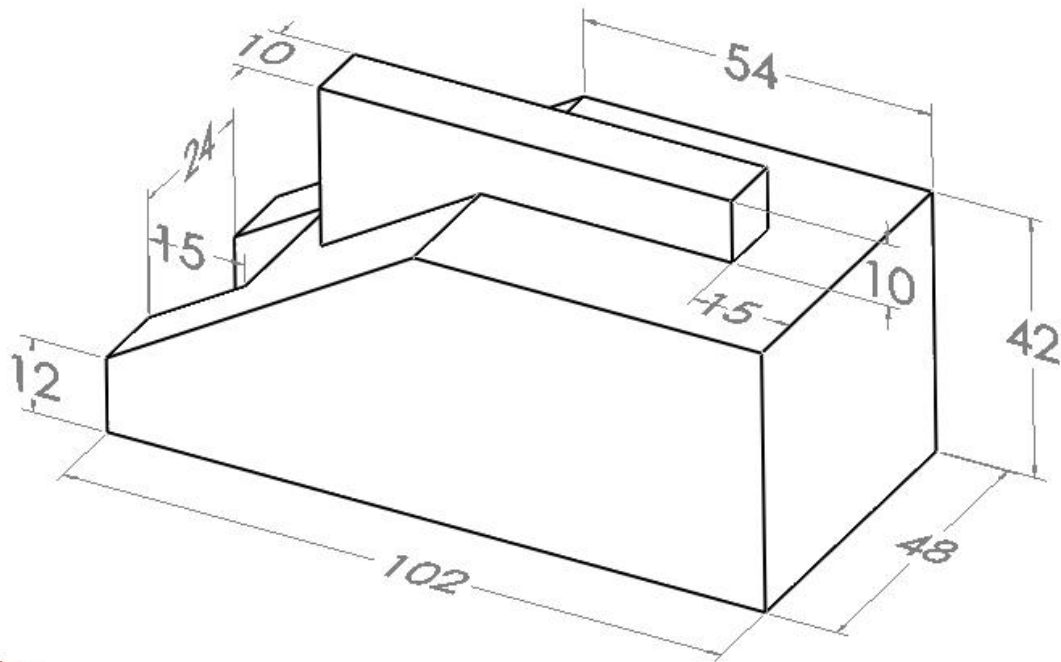
- Revolve
- Sweep
- Loft

8. Reference Geometry

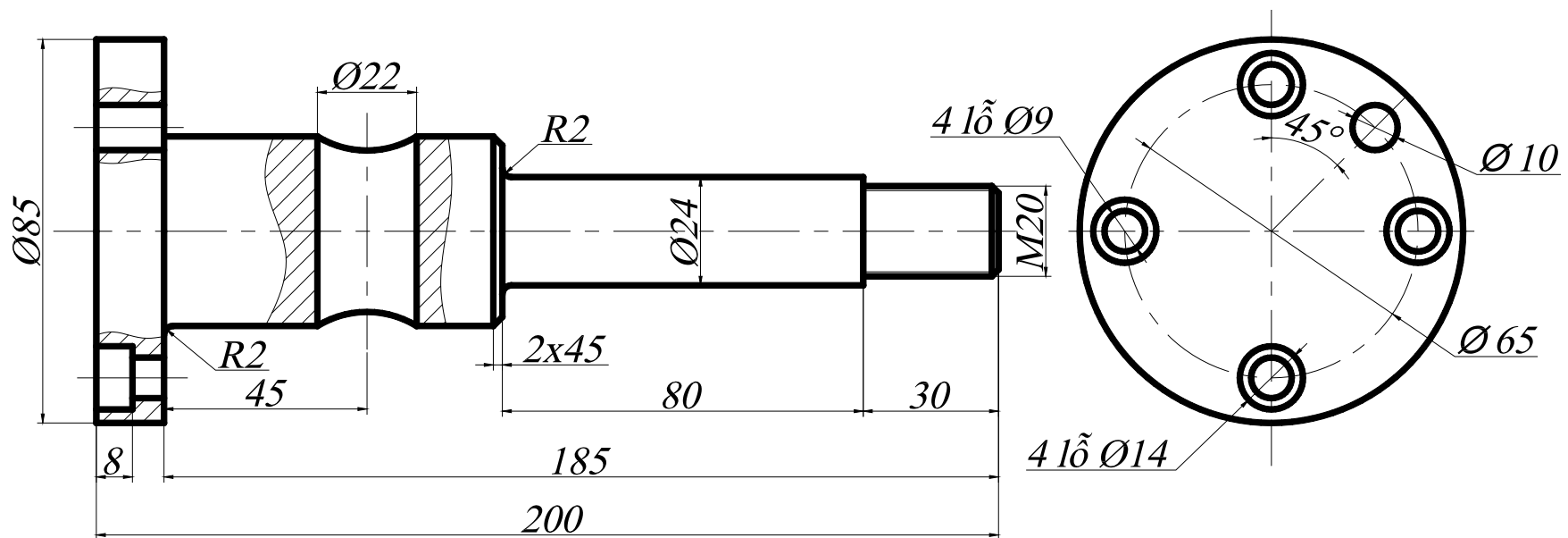
- Plane
- Axis
- Point

9. Threads

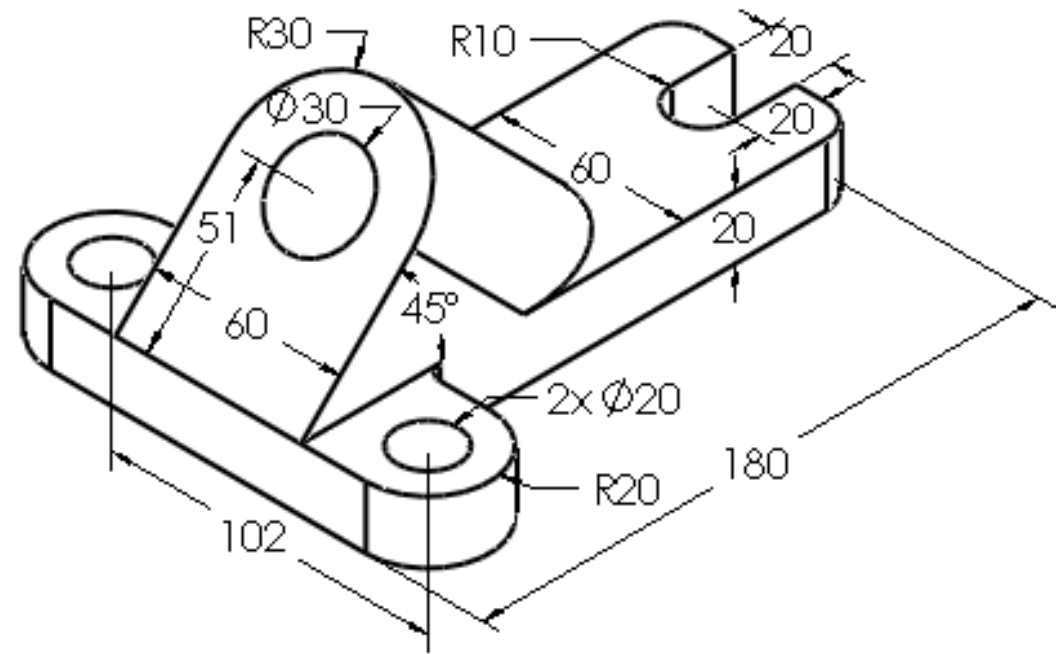
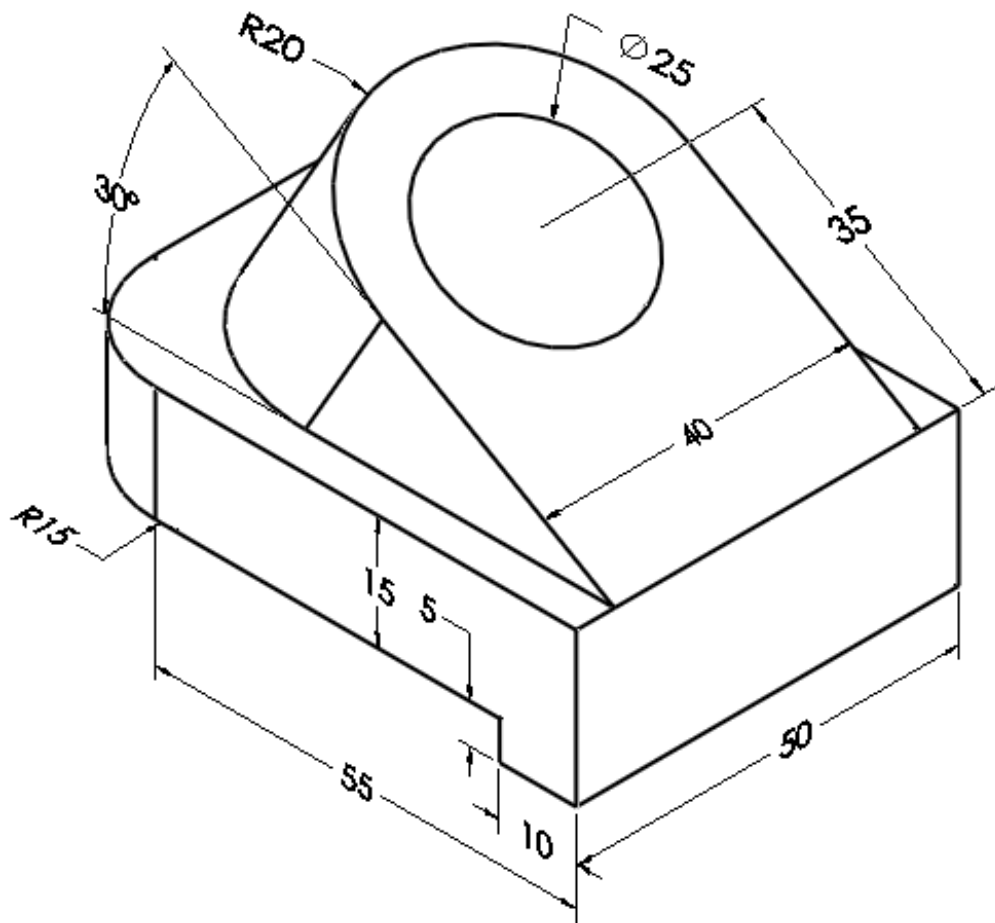
10. Bài tập (1)



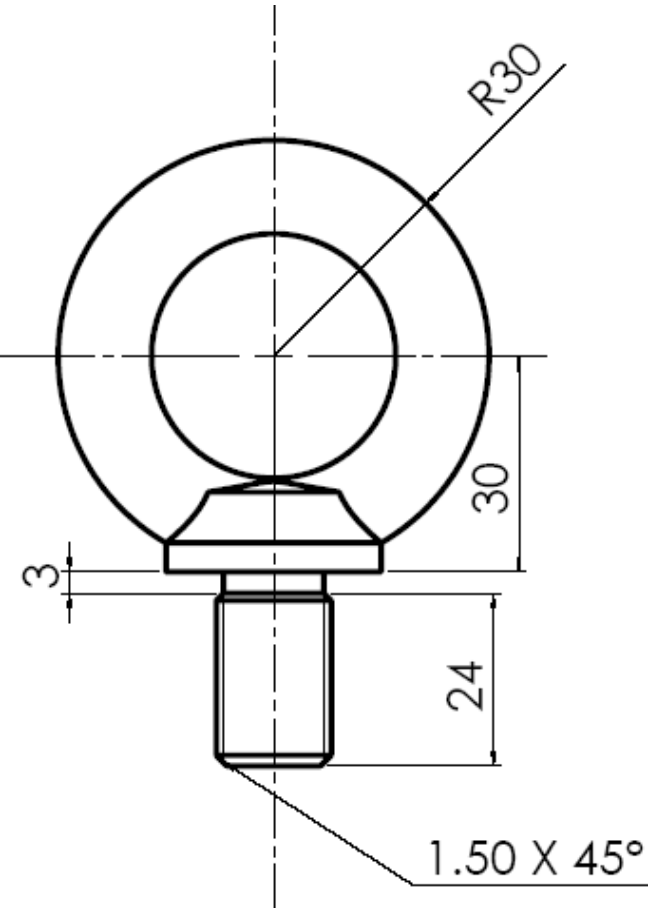
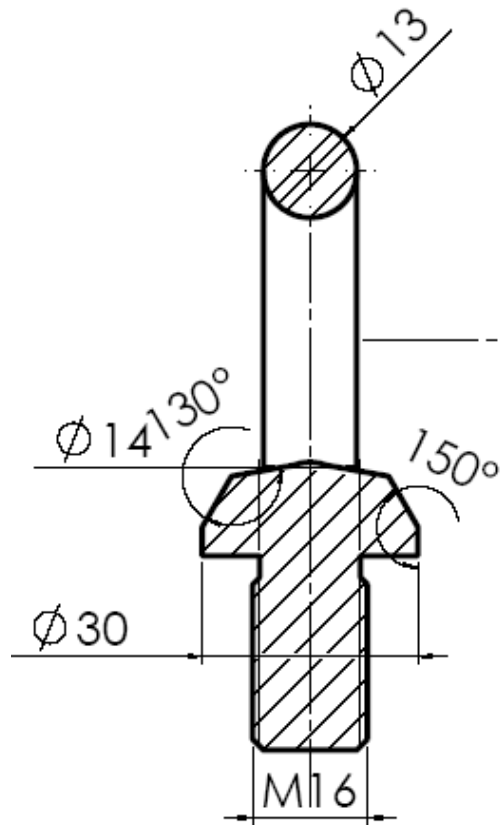
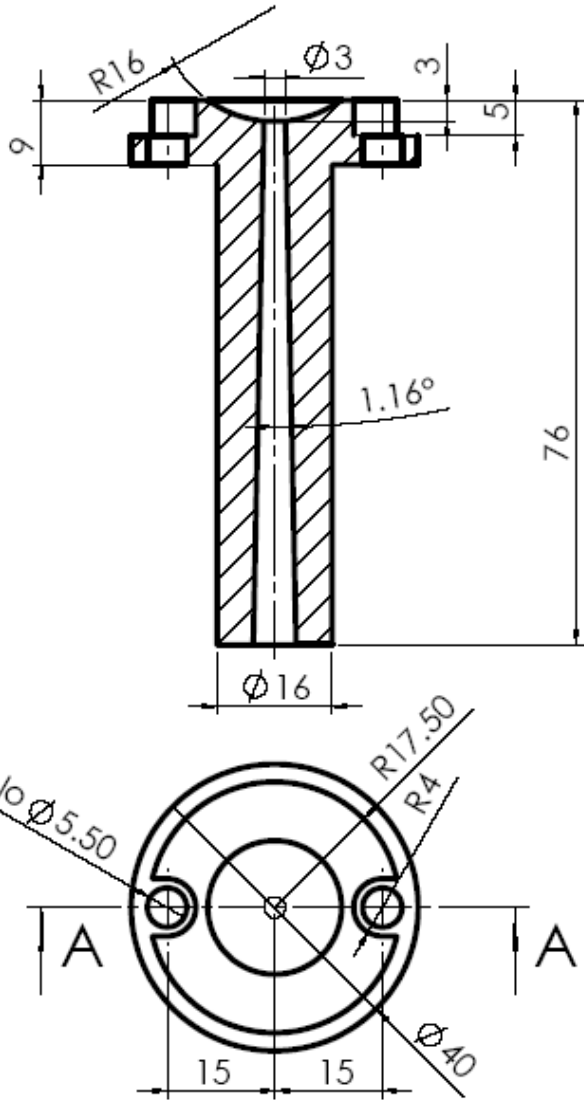
10. Bài tập (2)



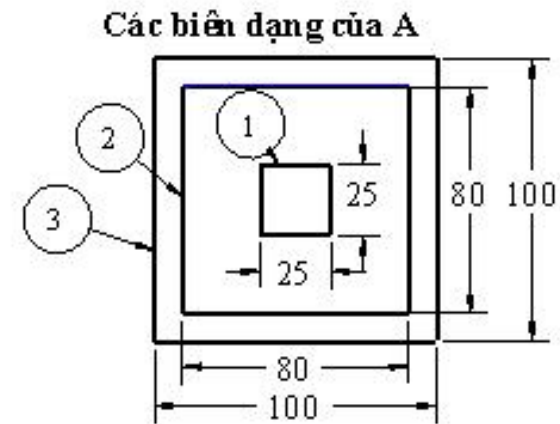
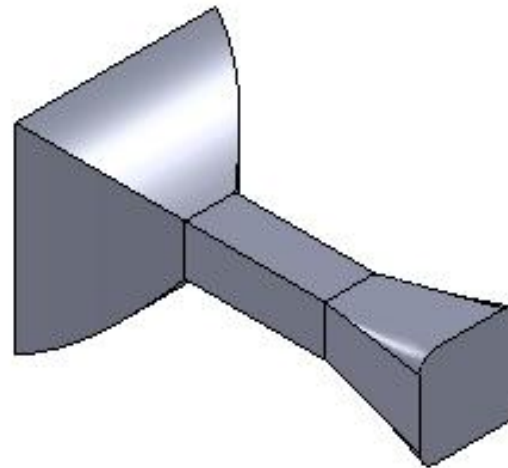
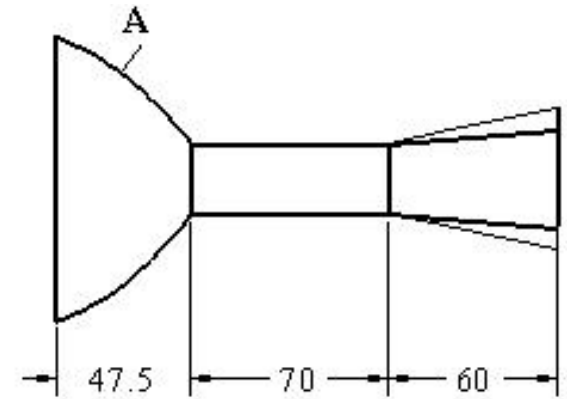
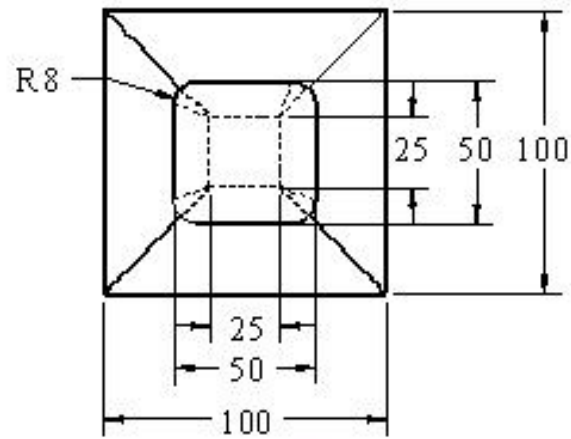
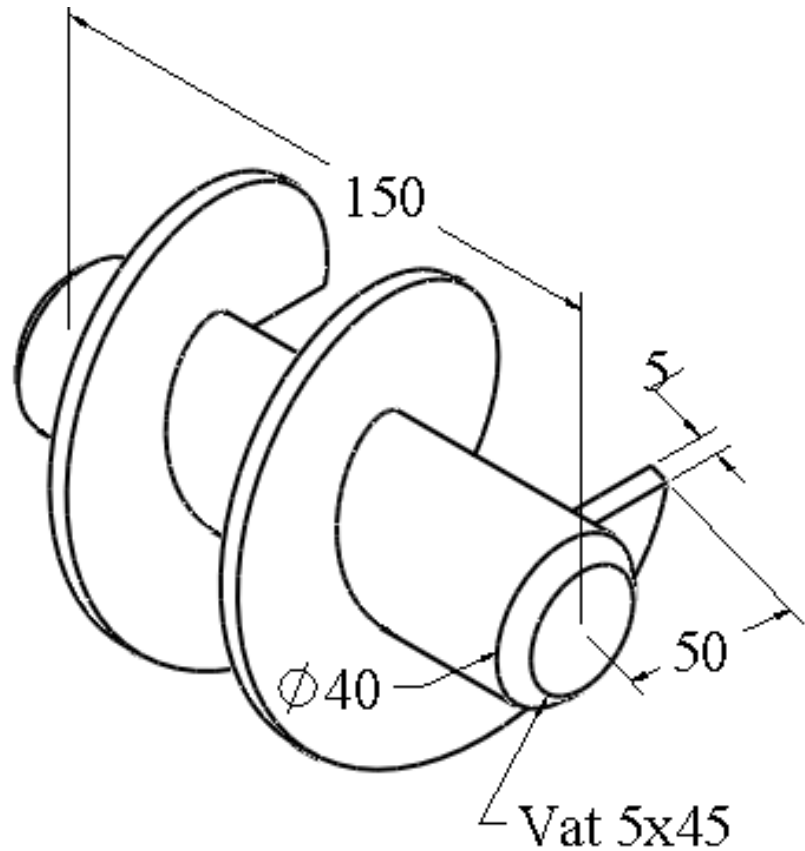
10. Bài tập (3)



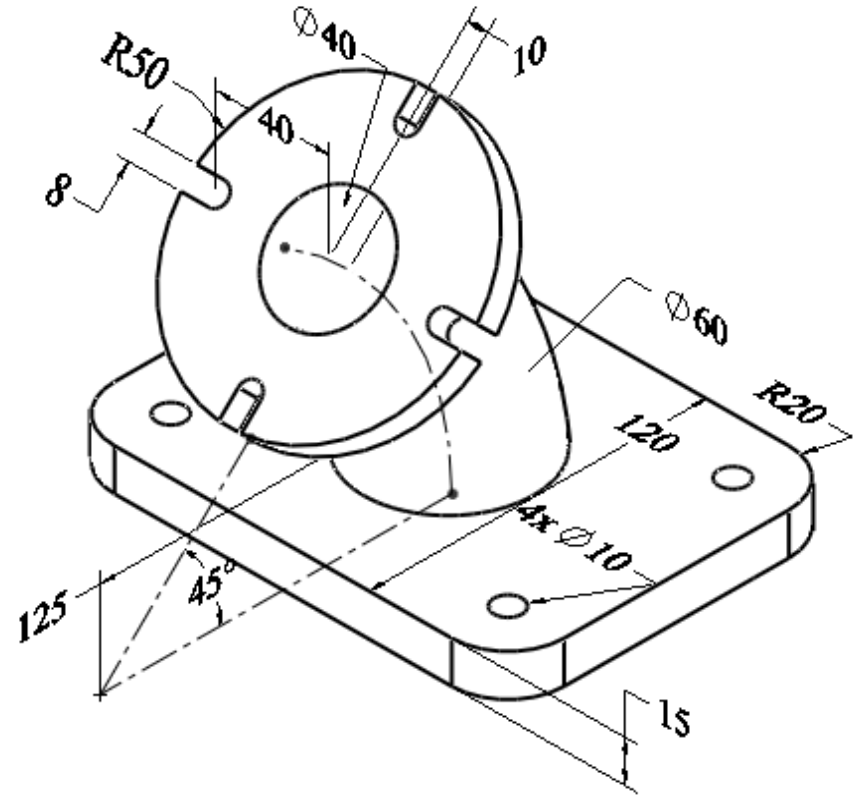
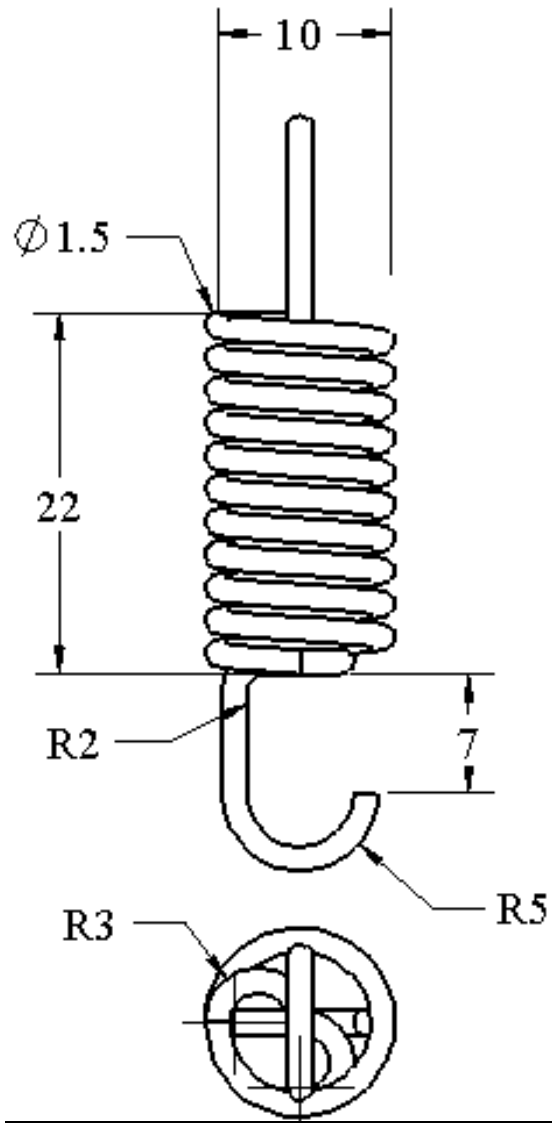
10. Bài tập (4)



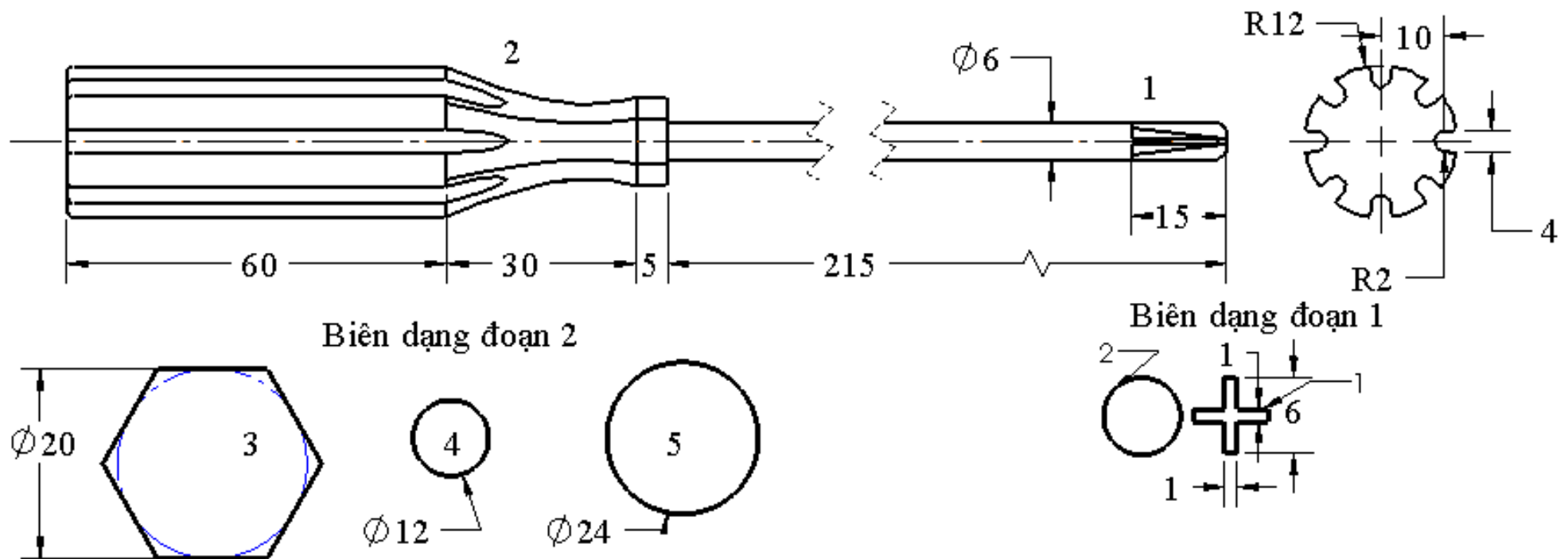
10. Bài tập (5)



10. Bài tập (6)



10. Bài tập (7)



1 cách 2: 15mm; 3 cách 4: 10mm; 4 cách 5: 30mm.

Cảm ơn các bạn đã theo dõi!

