



Practical 01 : Engineering Graphics on AutoCAD – Draw Techniques

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Objectives

- To understand the AutoCAD graphical user interface (GUI)
- To understand the principal draw techniques and coordinate systems used in AutoCAD
- To learn the use of basic draw, modify and system commands to create simple 2D sketches

Task 01

- Launch AutoCAD through 'All Programs'.
- Create a new AutoCAD file using 'Select Template' dialog box by opening the 'acadiso' template.
- Save the file on desktop giving ACAD-2D-P01-T01-'your registration number' as the file name/ save regularly.
- Write down in the given table, the coordinates of the vertices of the 'Figure 1' using,
 - Absolute cartesian coordinates, taking starting point at (0,0).
 - Relative cartesian coordinates, taking your own starting point.
 - Relative polar coordinates, taking your own starting point.
 - Direct distance method, taking your own starting point.
- Produce Figure 1 using each of the draw techniques mentioned above.
- Produce Figure 2 using absolute cartesian, relative cartesian, relative polar and direct distance techniques separately on the same sheet. Select your own starting points.

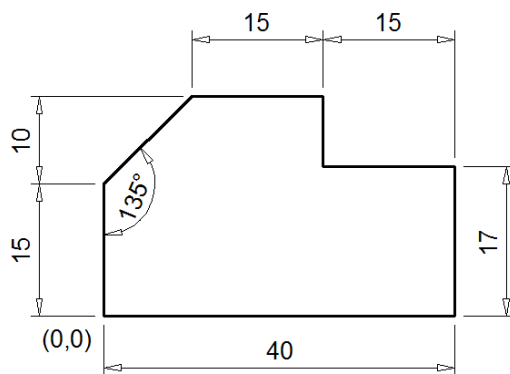


Figure 1

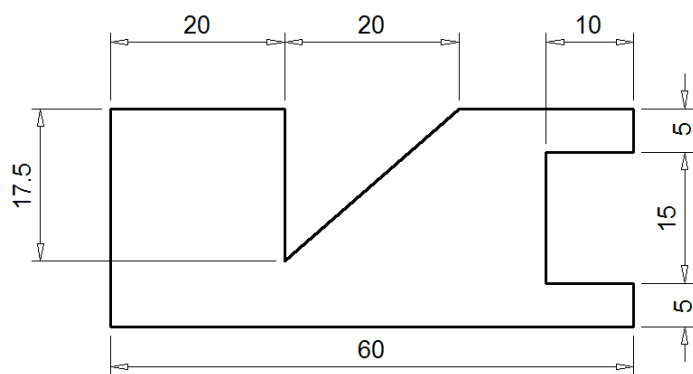


Figure 2

Absolute cartesian	
A1	0 , 0
B1	
C1	
D1	
E1	
F1	
G1	
END	

Relative cartesian	
A2	
B2	
C2	
D2	
E2	
F2	
G2	
END	

Relative polar	
A3	
B3	
C3	
D3	
E3	
F3	
G3	
END	

Direct distance	
A4	
B4	
C4	
D4	
E4	
F4	
G4	
END	