A — 60,270 / 20,250

B — 120,280 / 160,280 / 100,250 / 160,250

C — 20 20 20 / 40 / 223,230 / 60

D — 40 / 60° / 40 / 40 / 380,230

E — 75 / 60° 80 / 60° / 10,140 / 40

F — 20 / 110,140 / 15 / 100

G — 20 / 20 / 20 / 250,120 / 20 20 20

H — 12.5 12.5 / 31.6 / 47.3 / 380,110 / 10 / 7.5 7.5

[1] Start AutoCAD and save the file to your home folder under the name
of Surname_Name_L01a.dwg

[2] Save often your drawing (File>Save, CTRL+S, qsave)

[3] Use AutoCAD HELP to find out how LINE command works.

[4] Draw figures A and B using absolute Cartesian coordinates

[5] Use different ways of calling a command (menu, toolbar, command
line, *enter* to repeat)

[6] Draw figure C using relative Cartesian coordinates

[7] Draw figures D and E using relative polar coordinates

[8] Draw figure F using direct input of distance

[9] Draw figure G using the mouse by setting SNAP and GRID spacing to
10 units along both x and y axes

[10] Draw figure H. Choose the appropriate way to enter coordinates.

[11] Practice using the UNDO, and REDO commands

Function keys:

F1 - help

F2 - text window on/off

F3 - object snap on/off

F4 - tablet on/off

F5 - toggle isoplane

F6 - toggle coodinates display

F7 - grid on/off

F8 - ortho mode on/off

F9 - snap on/off

F10 - polar tracking

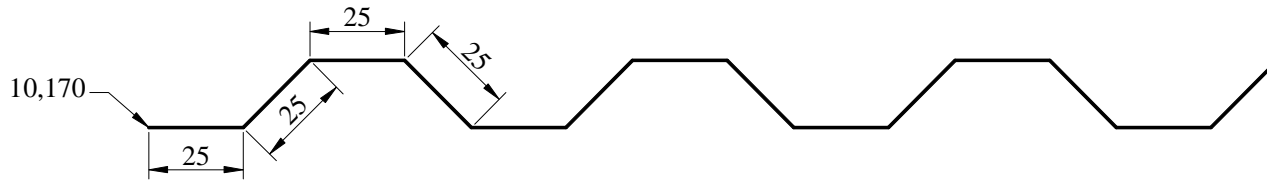Note: Dimensions and texts should
NOT be drawn
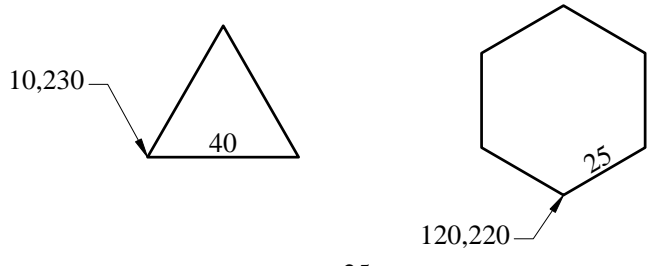
Commands and settings to use: Drafting Settings, Function keys or status bar (for toggling Polar tracking, SNAP, GRID), LINE, QSAVE (CTRL+S)

Note: Dimensions and texts should NOT be drawn

10,230

40

25

120,220

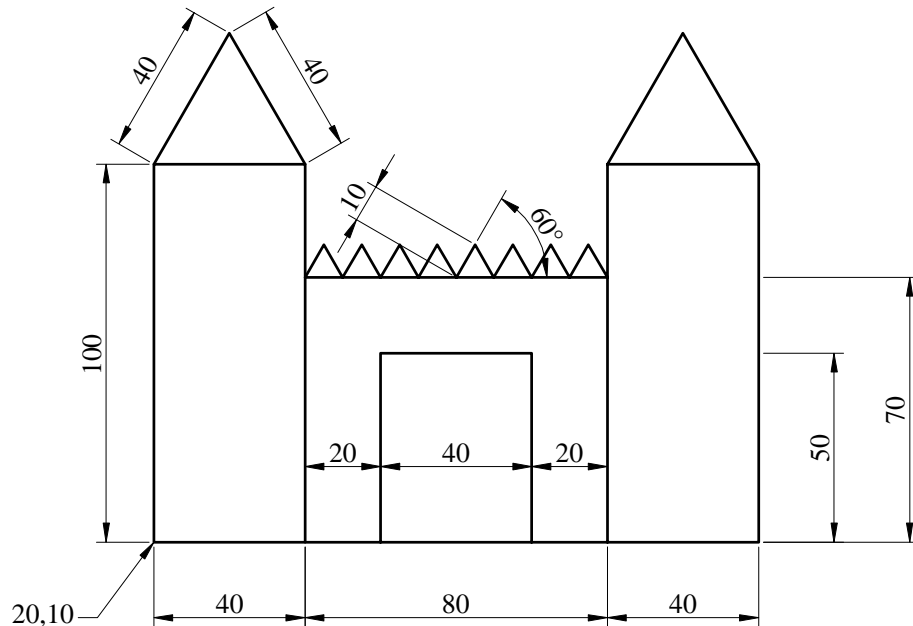[1.a] Save your drawing to your home directory under the name Surname_Name_L01 b .dwg

[1.b] Set the polar angle in increments of 30°, and enable Polar tracking (F10, status bar)

[1.c] Draw the traingle and hexagon, using polar tracking and direct input of distance

25

25

25

10,170

25

25

[2.a] Set the polar angle in increments of 45°, and enable Polar tracking (F10, status bar)

[2.b] Draw the corrugated steel sheet, using polar tracking and direct input of distance

40

40

10

60°

100

20 40 20

50

70

[3.a] Set the polar angle in increments of 30°, and enable Polar tracking (F10, status bar)

[3.b] Draw the figure to the left, using polar tracking, direct input of distance, and snap.

20,10

40 80 40

Commands and settings to use: LIMITS, Drafting Settings, Function keys or status bar (for toggling SNAP, GRID, Isometric planes), LINE, QSAVE (CTRL+S)

Note: Dimensions and texts should NOT be drawn

1.299,15.25

2

2

2
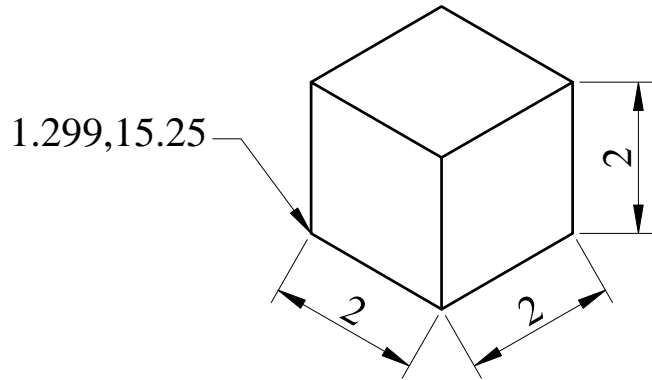
[1.a] Save your drawing to your home directory under the name Surname_Name_L01c.dwg
[1.b] Set LIMITS to 0,0 and 30,20
[1.c] Set SNAP and GRID to 0.5 in both directions, and activate both of them
[1.d] Use Zoom/All to zoom to the current drawing limits
[1.e] Enable "Isometric Snap and Grid"
[1.f] Draw the isometric view of a cube with the edge equal to 2 units using Isometric SNAP and GRID. Use F5 to toggle the Left, Right and Top isoplanes.
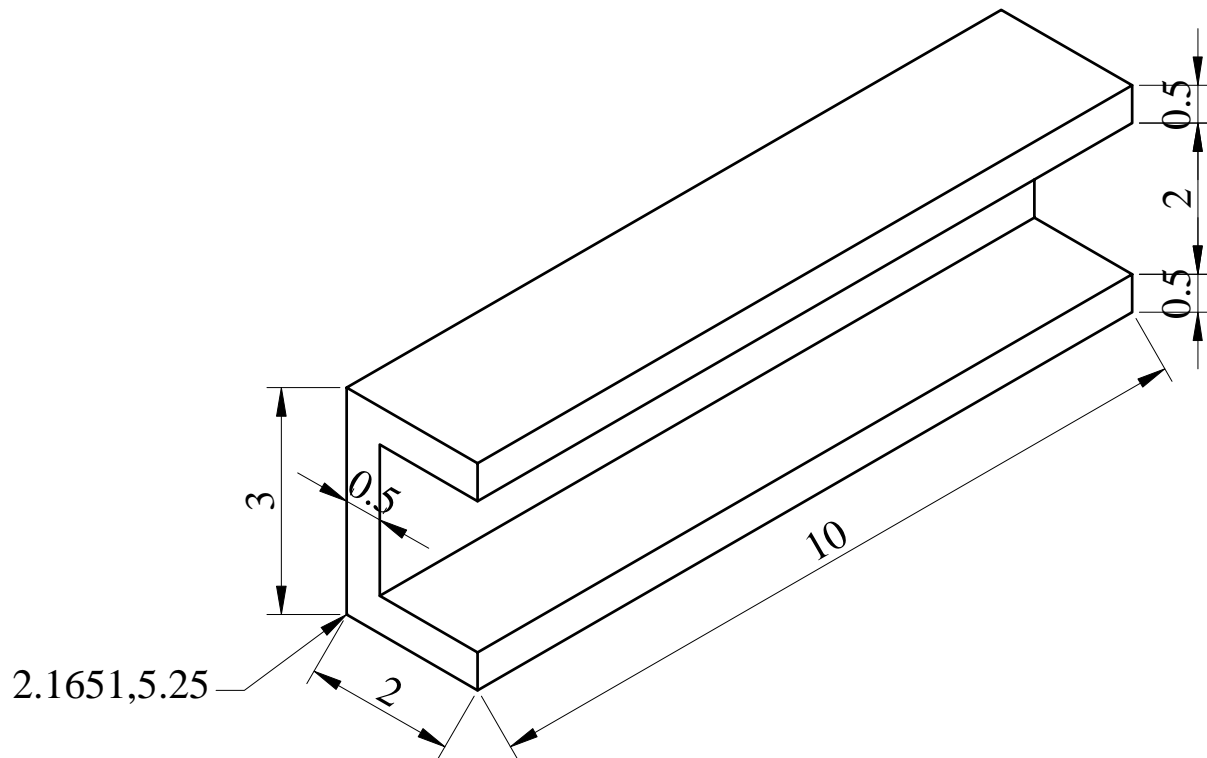
[2.a] Draw the isometric view of the channel in the figure to the left, using Isometric SNAP and GRID. Use F5 to toggle the Left, Right and Top isoplanes.

0.5

2

0.5

3

0.5

10

2.1651,5.25

2