

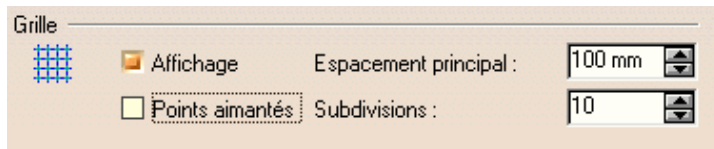
Sketch: Exercise 1

Purpose : create an outline using the outline icon then dimension and constrain it.


Information : Regardless of the command in use, you can activate or deactivate the

Toolbar Snap to Points command: **Sketch tools** (SmartPick) which allows to snap the cursor and the point is created on the grid.

You can also choose **Tools->Options**, in the tree on the left of the dialog box, expand the **Mechanical concept** and click on **Sketcher**; the Sketch tab appears: activate or not the option **Magnetic points** and set them **subdivisions** on 20 to have a spaced grid of 5 mm.



Enable Grid  if necessary.


1. Create a contour substantially identical to the figure below: use the contour icon to activate  and the grid.

Tips Remember to use the Shift and Ctrl keys to take into account the self-constraints or not
 Shift to disregard
 Ctrl to hold the constraint while moving the cursor.
 One click on the icon to **cancel** allows to undo sequentially what is not correct.

Remarks : A double click on an icon keeps the command active. A point or a line can be dragged with the cursor.

2. Add the dimensions by clicking twice on  from the bar **Constraint**.
 A right click during the dimension allows to choose a horizontal or vertical dimension.



3. Complete with the missing geometric relations; select items (Ctrl held)
 then click on the icon on the left of the bar **Constraint**  (icon active now).

The final result must be the drawing opposite with the constraints:

- H: Horizontal
- V: Vertical
- O: Coincidence
- ÷: symmetry.

4. Save: Exo 1 and close the file.

