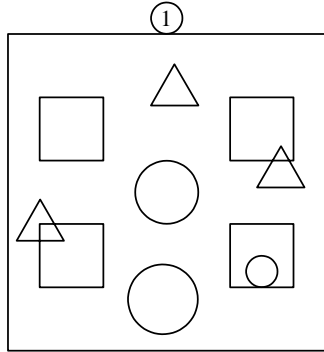[1.a] Open the en_L03a_suport.dwg file and save it to your home directory under the name
   Surname_Name_L03a.dwg
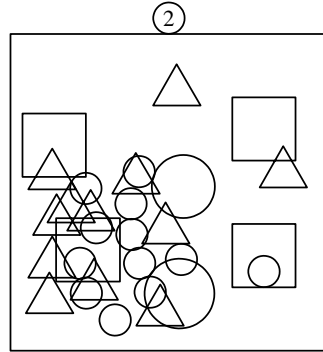[1.b] Use an appropriate option of the ZOOM command to display the extents of the drawing
[1.c] Use the Window option of the ZOOM command to display problem (1)
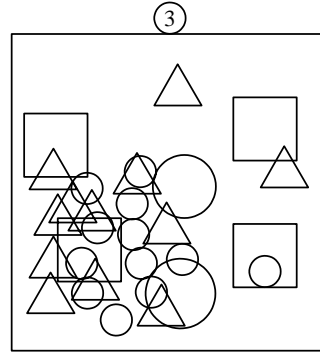[1.d] Practice the options of the ZOOM command:
   [All/Center/Dynamic/Extents/Previous/Scale/Window] <real time>

① ERASE (E) the red
objects
Use direct picking
to select the objects
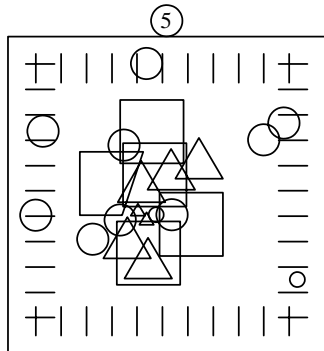
Use PAN to display
the next problem (2)
to the right

② ERASE (E) the red
objects

Use the Window (w)
selection tool to
select the objects
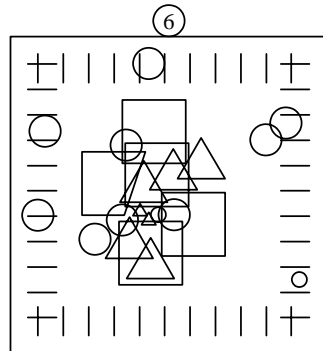(explicit [w] or
implied [left to
right])

③ ERASE (E) the red
objects

Use the Crossing
window (c)
selection tool to
select the objects
(explicit [c] or
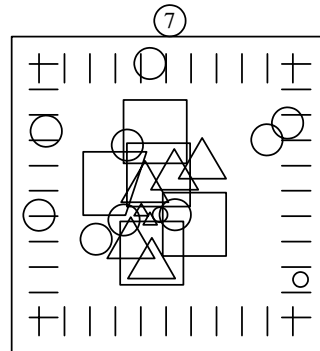implied [right to
left])
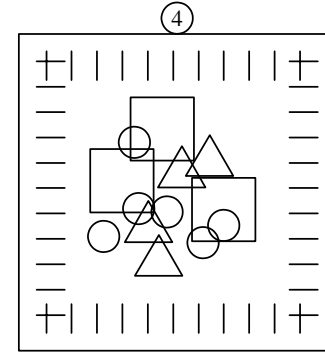
④ ERASE (E) the red
objects

Use the Fence (f)
selection tool to
select the objects

⑤ ERASE (E) the red
objects

Use a combination
of direct picking and
window selection
tool to select the
objects

⑥ ERASE (E) the red
objects

First select the
grouped objects, and
then remove (Shift
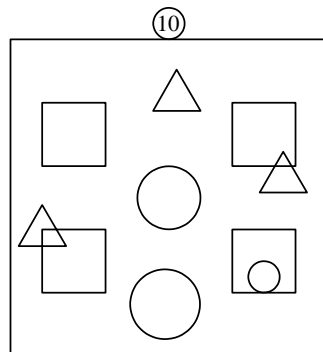or r) the green
triangle inside the
group to select the
objects

⑦ 1. Select the red
objects using the
SELECT command
2. Then Erase the
Previous (p)
selection set
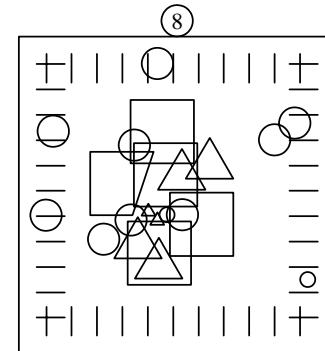
⑧ Draw a pentagon
inscribed in a circle
of radius 7, with the
centre at 500,171

ERASE (E) the red
objects

Select the grouped
red objects and then
use the Last (l)
option to remove (r)
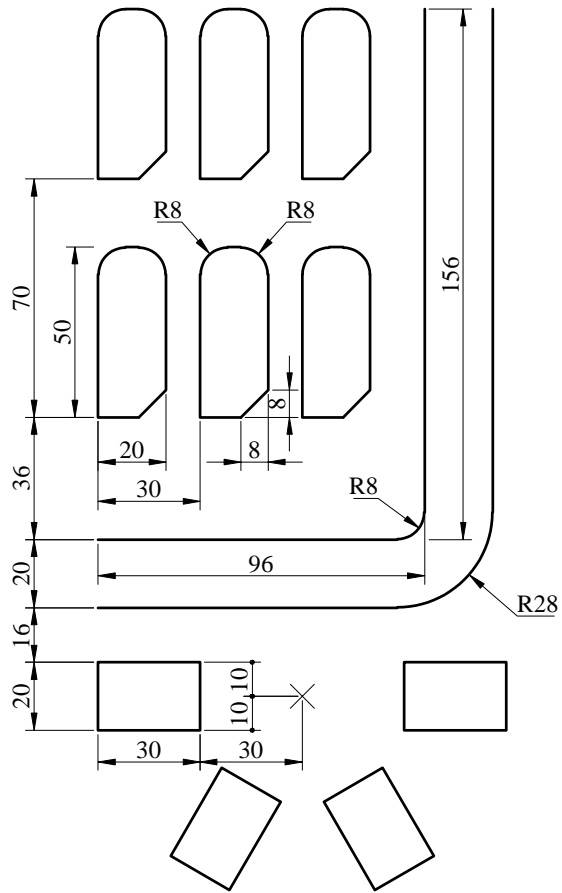the pentagon from
the selection set
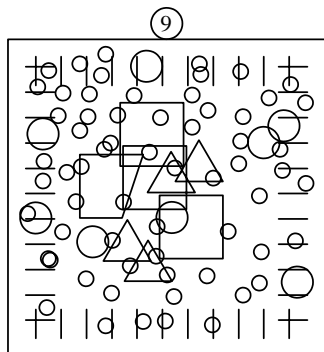
⑨ ERASE (E) the red
objects (circles of
radius 2.5)

Use Quick Select
command to apply a
filter for circles of
radius 2.5, applied
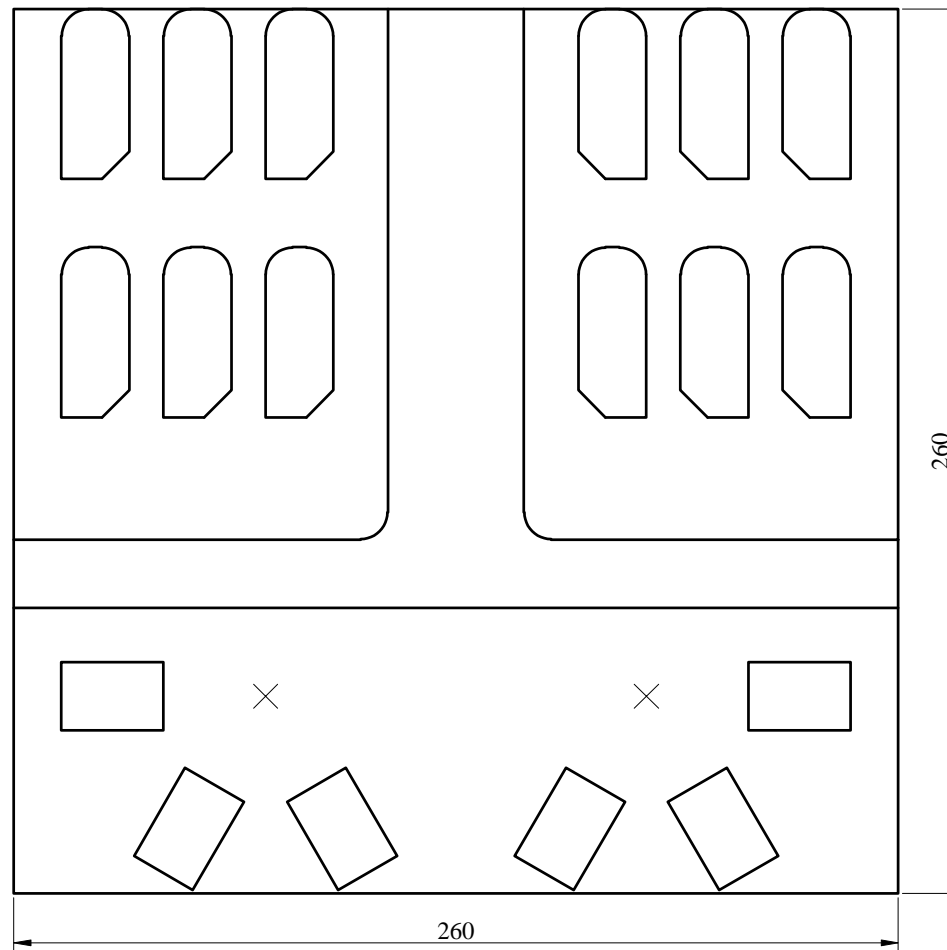to the objects from
this problem only

⑩ ERASE (E) the red
objects
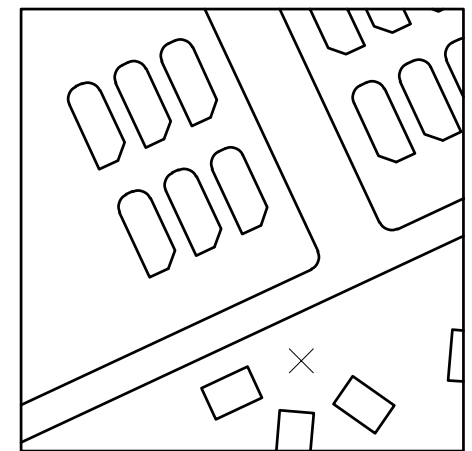Use the
NOUN/VERB
selection method

Drawing labels: 1, 2, 3

Dimensions in drawing (1): R8, R8, R8, R28, 156, 70, 50, 36, 20, 16, 20, 96, 30, 20, 8, 8, 30, 30, 10, 10

Dimensions in drawing (2): 260, 260, 260

[1.a] Save your drawing to your home folder under the name Surname_Name_L03b.dwg

[1.b] Draw the road interior border. FILLET road corners. OFFSET the two lines and the arc to construct the exterior road border.

[1.c] Draw a 20x50 RECTANGLE north to the road. (Hint: you can draw it at the road end and MOVE it afterwards, or you can use the FROM feature). Use the FILLET and CHAMFER commands to construct the shape of the building. Use a rectangular ARRAY to construct the group of 6 buildings.

[1.d] Set the point shape to a cross and its size to 5 in absolute units.

[1.e] Draw a 30x20 RECTANGLE south to the road. Use a polar ARRAY to construct the group of four buildings south of the road.

[2.a] COPY drawing (1) 170 units to the right.

[2.b] Draw a square with the edge of 260 units. The midpoint of the square top edge is at the endpoint of the road exterior border.

[2.c] MIRROR the objects about a vertical line passing through the midpoint of the 260x260 square top edge.

[2.d] ERASE some objects and EXTEND others to obtain the final look of drawing (2).

[3.a] COPY drawing (2) 310 units to the right.

[3.b] ROTATE drawing (3) about the midpoint of the square top edge by 25 degrees counter-clockwise.

[3.c] Use the ERASE, TRIM, and EXTEND commands to obtain the final look of the drawing (3).

[3.d] SCALE drawing (3) about the square upper-left corner by a factor of 0.5