

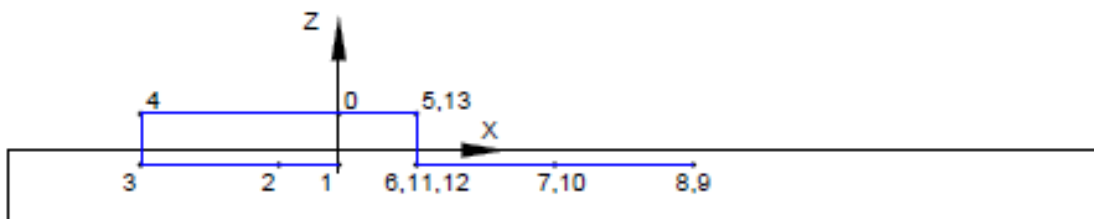
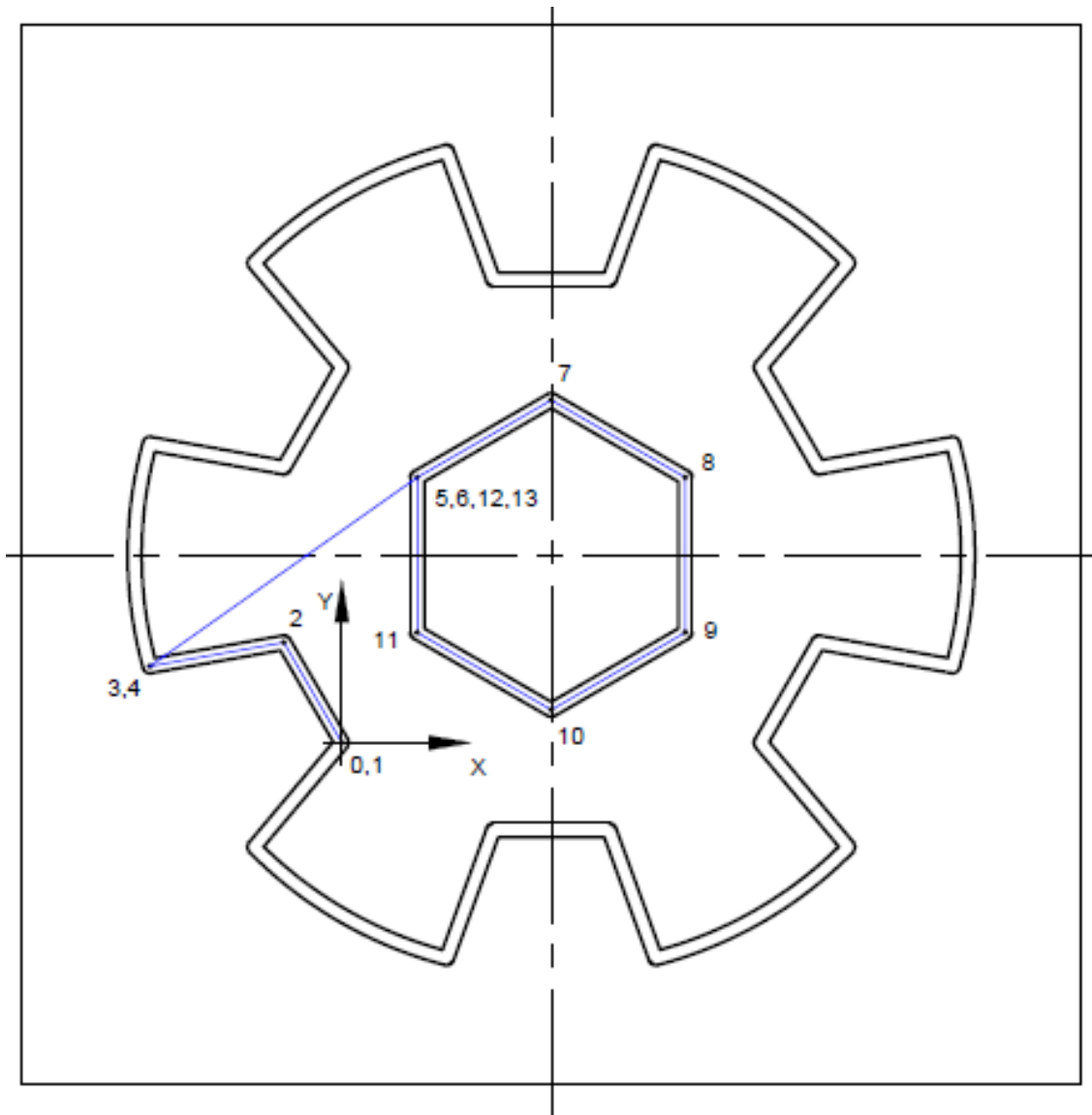
Field of education:
Mechanical engineering

Professional qualification:
CNC operator

Exercise:
**Programming of CNC machine
(solution)**

Variant:
Task 60 – Sprocket 5.3.

Solution:



Required written code that should be inserted into the control unit:

G1 Z-2

X-8,2 Y14,203

X-27,185 Y10,856

Z5

G0 X10,675 Y37,571

G1 Z-2

X29,675 Y48,541

X48,675 Y37,571

Y15,632

X29,675 Y4,662

X10,675 Y15,632

Y37,571

Z5

M30

Explanation of the G-code:

%Setting the coordinate system x=0, y=0, z=5; point 0

G1 Z-2 %Tool entry into material; point 1

X-8,2 Y14,203 %Straight milling; point 2

X-27,185 Y10,856 %Straight milling; point 3

Z5 %Lifting of tool; point 4

G0 X10,675 Y37,571 %Positioning; point 5

G1 Z-2 %Tool entry into material; point 6

X29,675 Y48,541 %Straight milling; point 7

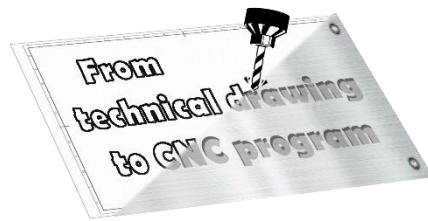
X48,675 Y37,571 %Straight milling; point 8

Y15,632 %Straight milling; point 9

X29,675 Y4,662 %Straight milling; point 10

X10,675 Y15,632 %Straight milling; point 11

Y37,571 %Straight milling; point 12



Z5 %Lifting of tool; point 13

M30 %End of program