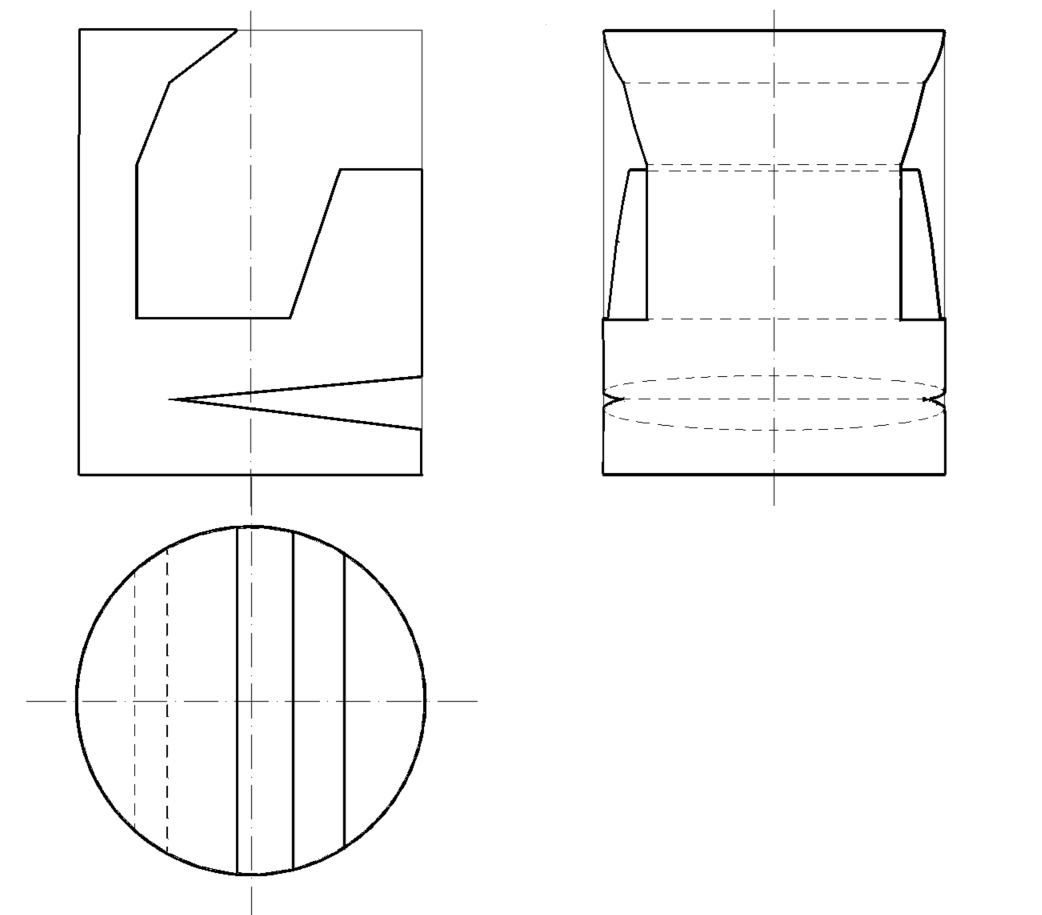
***Result:***

Frontal, horizontal and profile projections of the cylinder cut with 8 planes (A3 size, scale 1:1)



Answers to questions 1-4:

1. Types of sections: α - ellipse, β - ellipse, γ - rectangle, δ - circle, ε – ellipse, ζ - circle, η - ellipse, θ - ellipse.
2. Planes δ and ζ form the cross-sections and plane γ forms the longitudinal section of the cylinder. These planes are perpendicular to each other (the angle between them is 90°).
3. Planes η and θ are not mutually symmetrical about the cross-section of the cylinder.

The angle between the plane θ and the cross-section is larger than between the cross-section and the plane η.

Due to that the surface area of the section θ is larger than of the section η.

1. Plane δ = plane ζ -> plane η -> plane θ -> plane α -> plane β -> plane ε -> plane γ, sorted from smallest to largest surface area of a section.