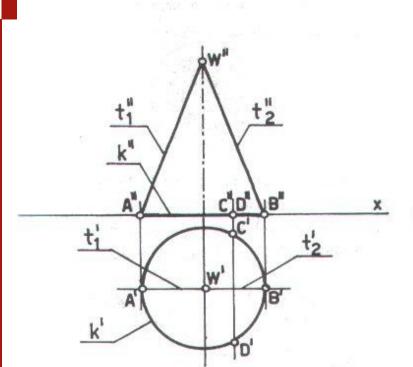


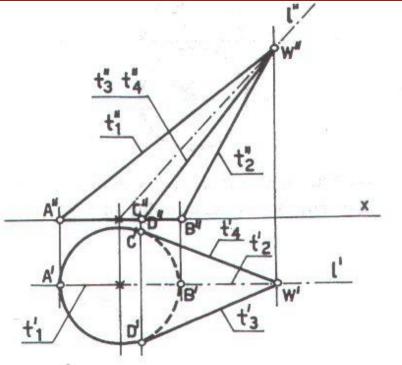
Fundamentals of engineering drawing, p.4

dr inż. Stanisław Frąckowiak



Curved lines and surfaces

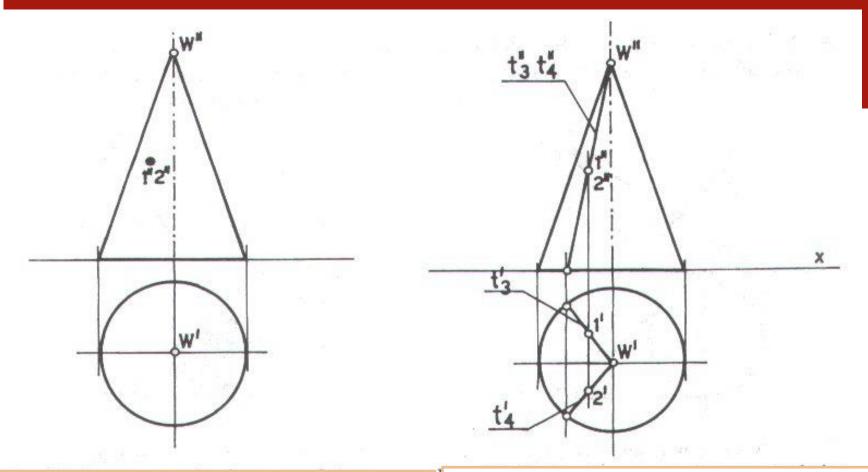




circle k of the base of the cone of revolution. The projections of generators t1 and t2 are the vertical contour of the cone

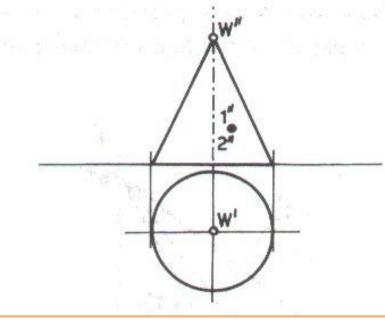
The points AB and CD lie on the Projections of a non-rotating cone in the frontal position. The directrix lying in a plane perpendicular to the axis l is an ellipse. Forming contours of the vertical projection t1 and t2 - of the horizontal projection t3 and t4

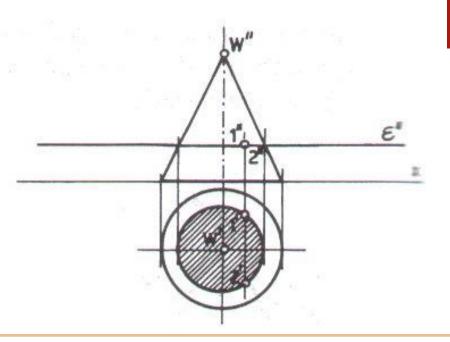




Given in the vertical projection lying on the surface of the cone any points 1 and 2 Establishing the horizontal projection of points 1 and 2 by drawing lines t3 and t4 through them



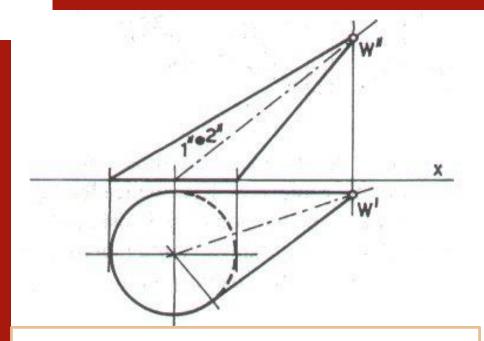


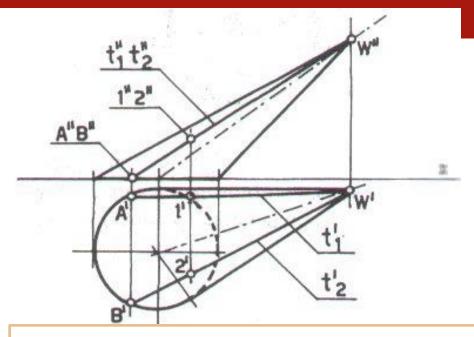


Given in the vertical projection lying on the surface of the cone any points 1 and 2

Determination of the horizontal projection of points 1 and 2 by drawing through them, cutting the cone in a circle, perpendicular to the axis l, parallel to the base of the plane ϵ

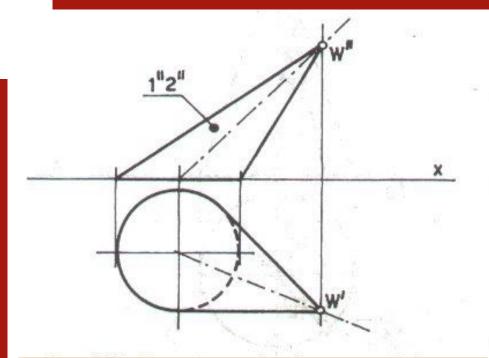


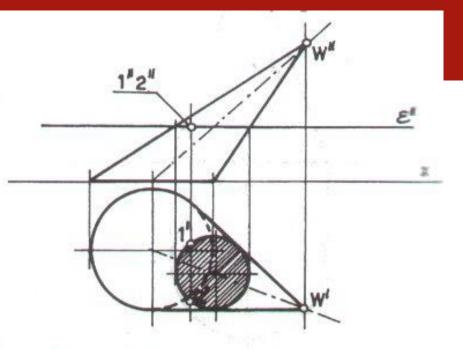




Given in the vertical projection lying on the surface of the cone any points 1 and 2 Establishing the horizontal projection of points 1 and 2 by passing through them the lines forming t1 and t2

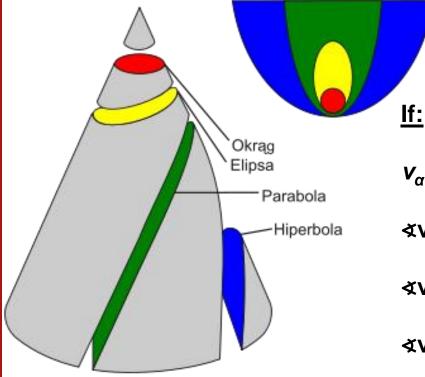






Given in the vertical projection lying on the surface of the cone any points 1 and 2 Determining the horizontal projection of points 1 and 2 by drawing through them a plane ε parallel to the cutting base of the cone in a circle

Conic curves



 $v_{\alpha} \parallel x_{1,2}$ then the result of the section is a circle

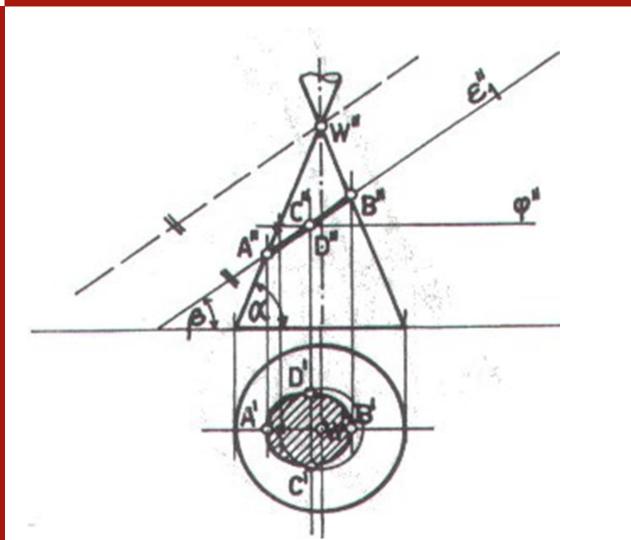
 $\langle v_{\alpha} \rangle < \langle r$ forming this result is an ellipse

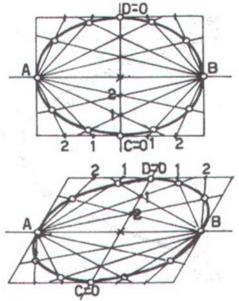
 $\triangleleft v_{\alpha} = \triangleleft$ forming this result is a parabola

 $\langle v_{\alpha} \rangle \langle forming this result is a hyperbola$

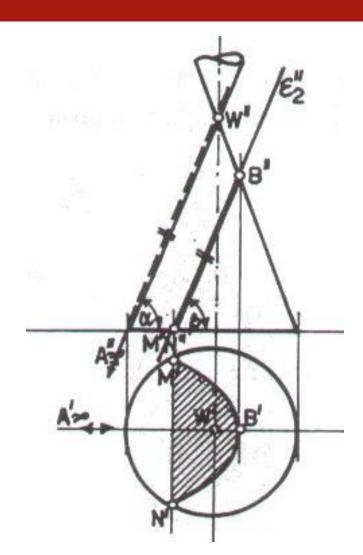
źródło:https://pl.wikipedia.org/wiki/Krzywa_stożkowa

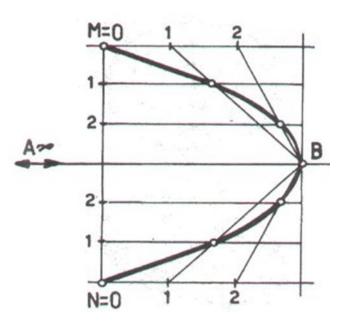
Conic curves - ellipse





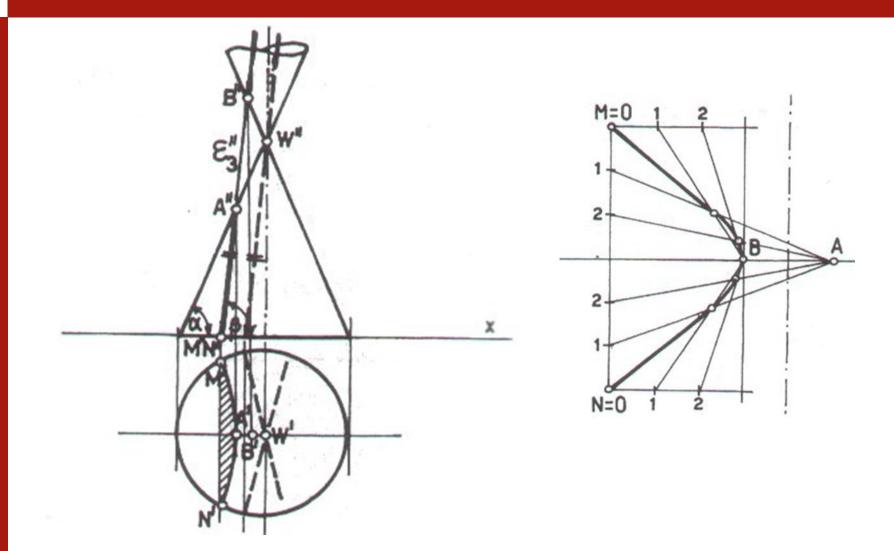
Conic curves - parabola





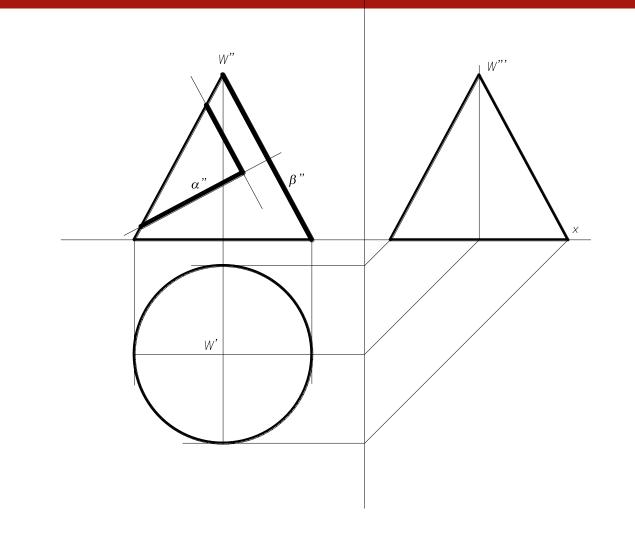
<u>%</u>

Conic curves - hyperbola

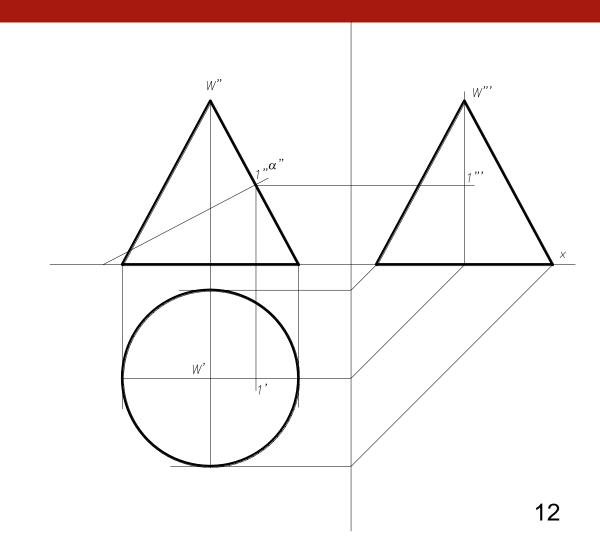




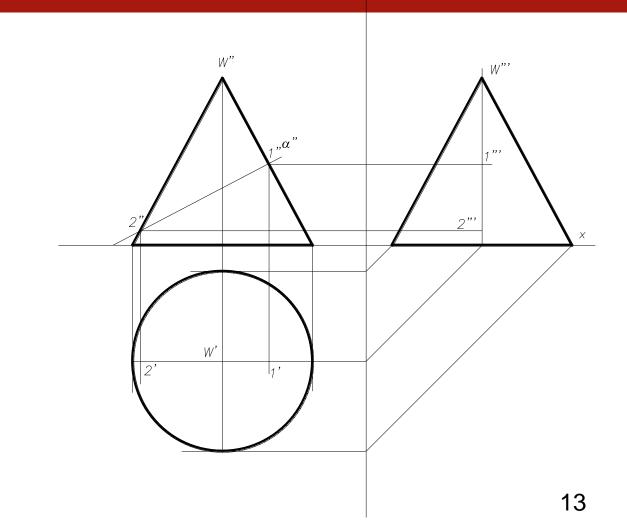
Cone broken pattern



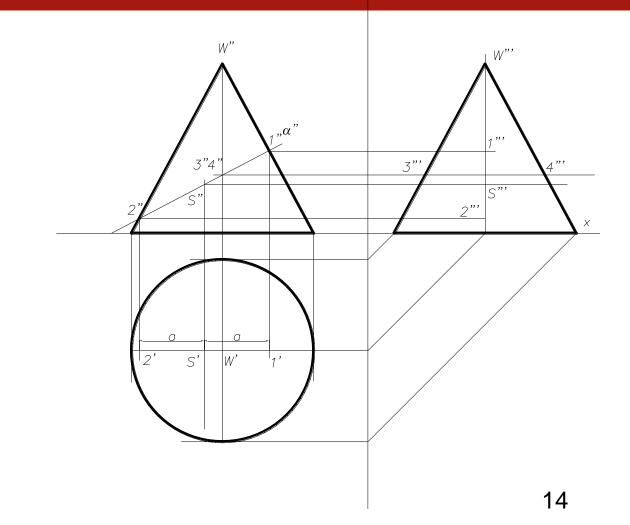




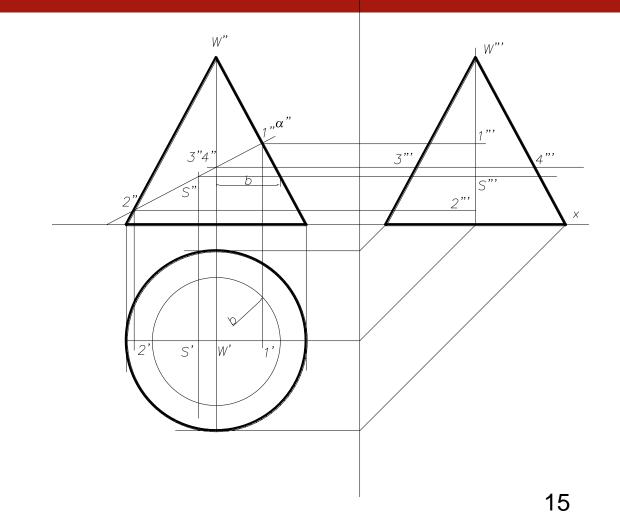




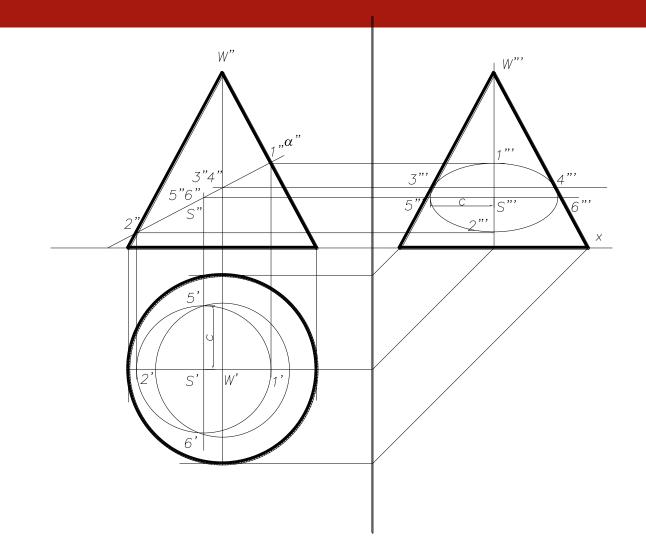




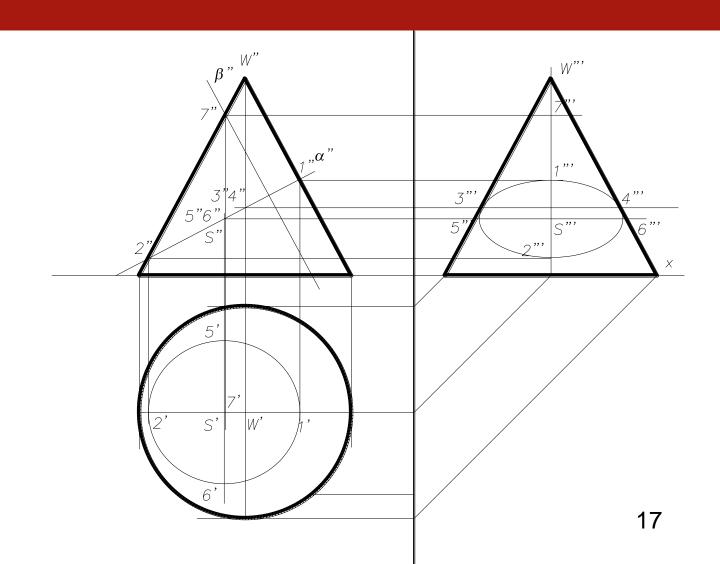




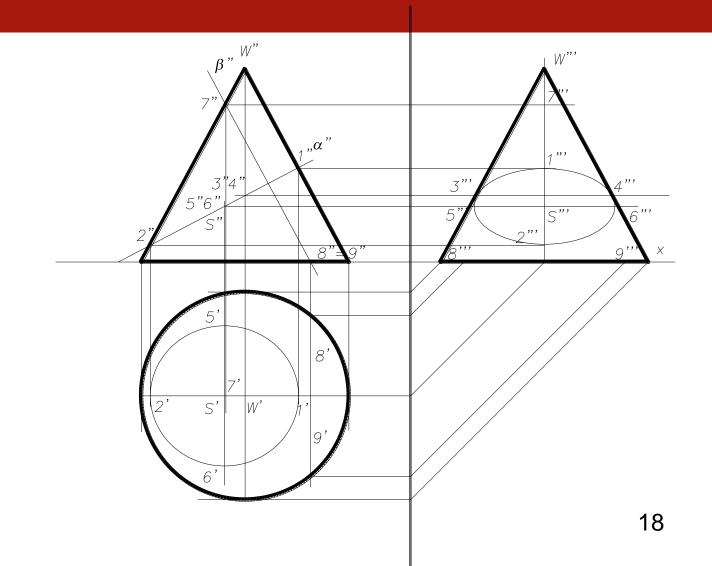




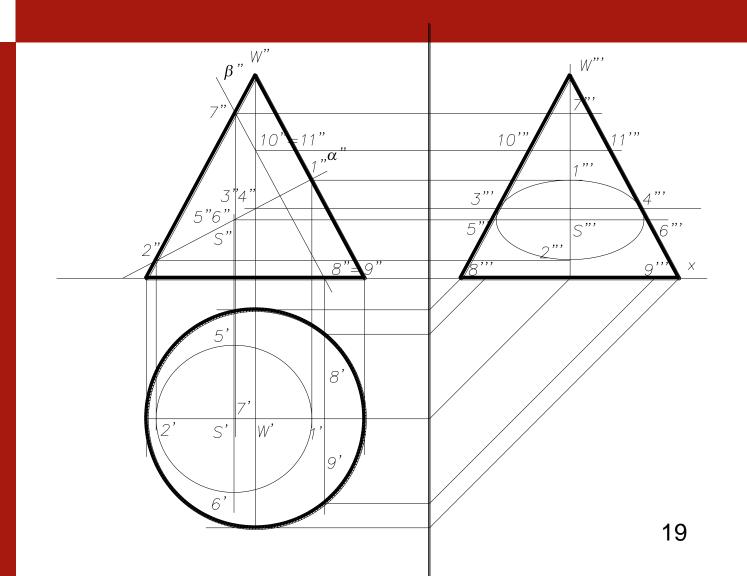




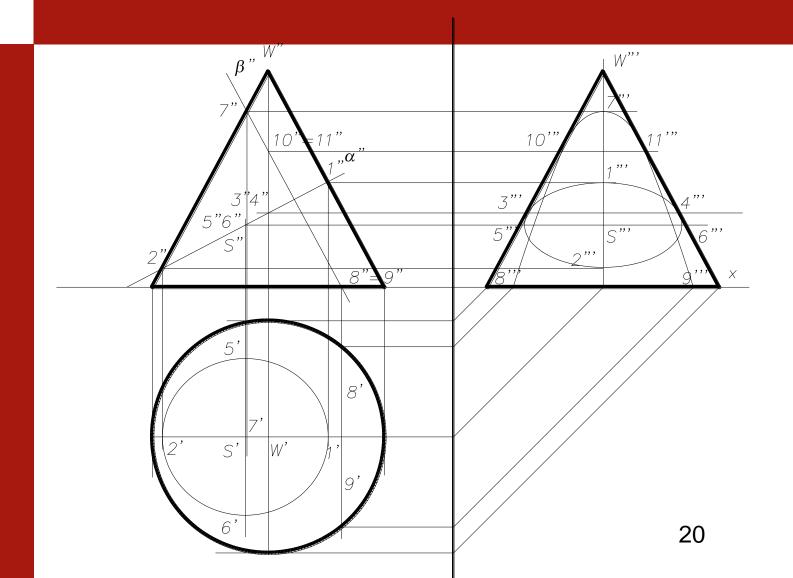




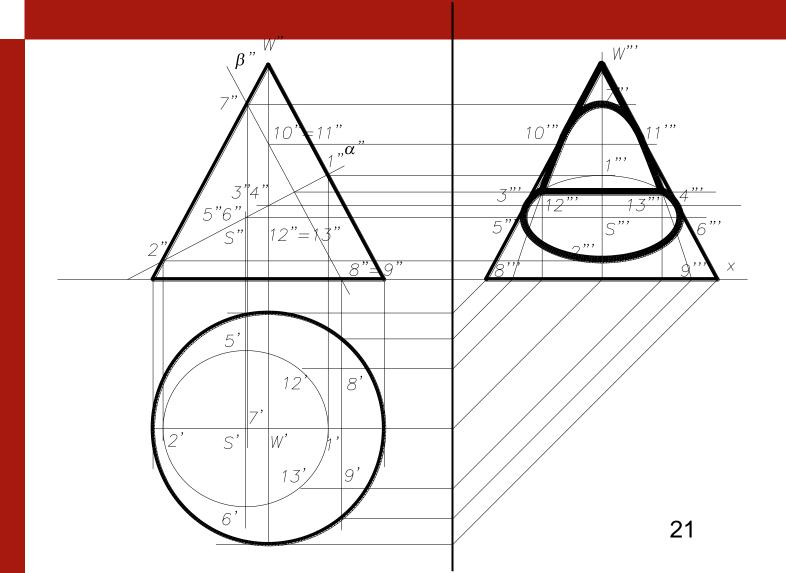




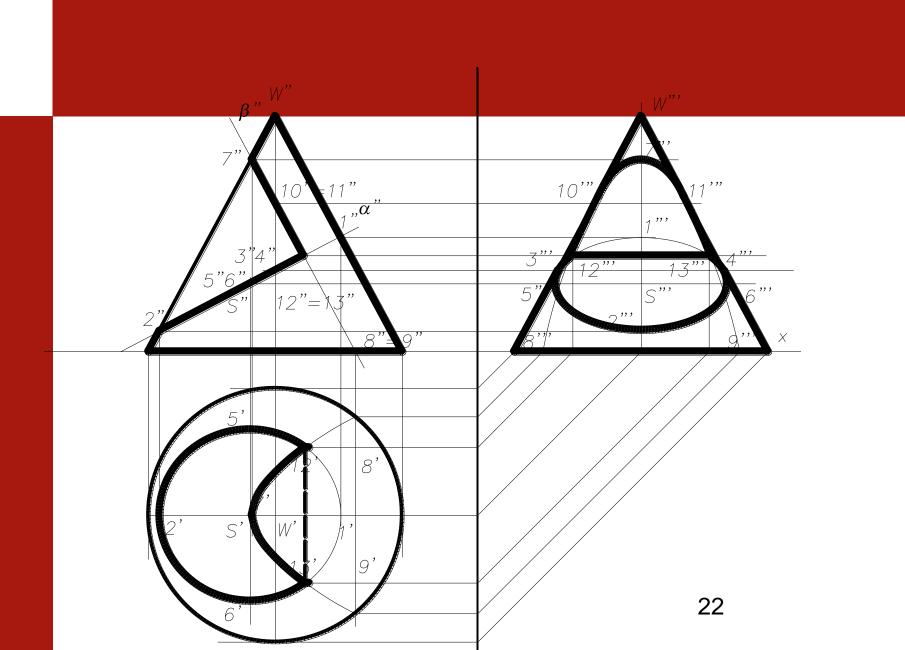




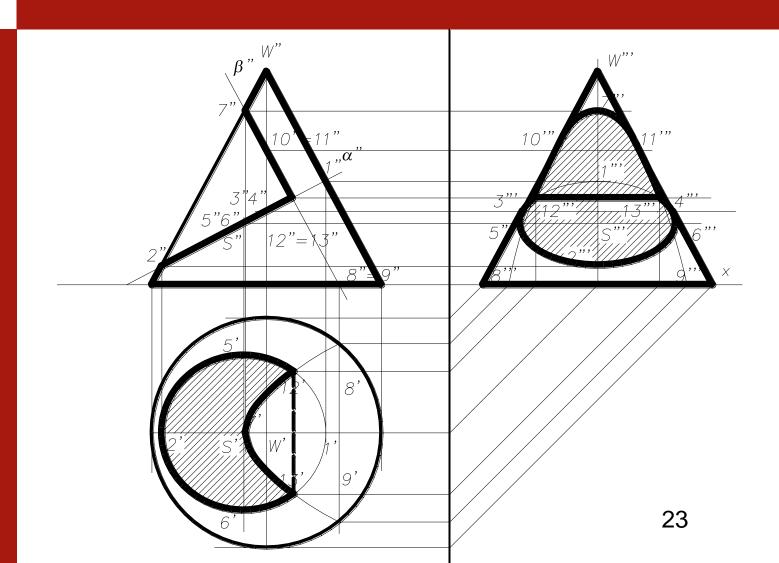














Cylinder penetration



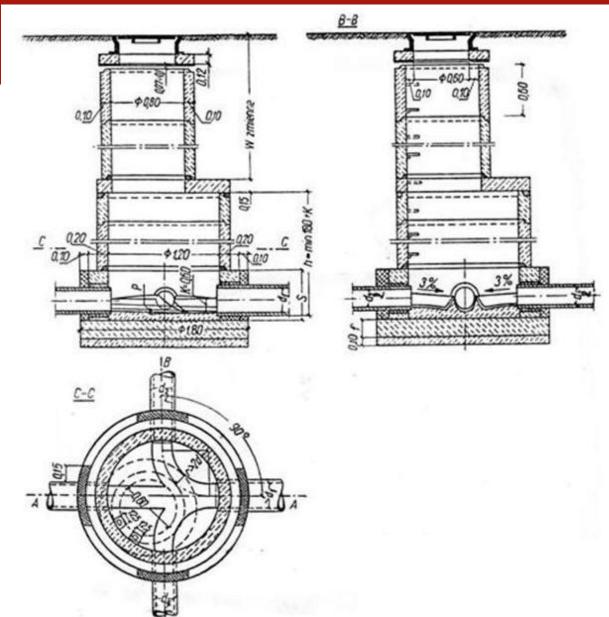








Przenikanie walców



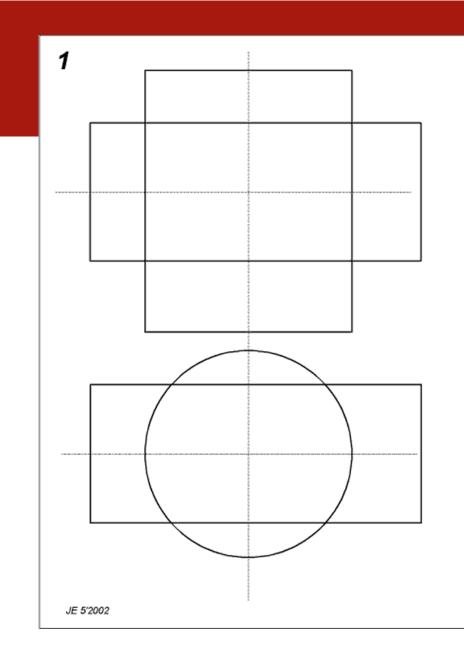


Cylinder penetration



Źródło: https://hydrokan.com/galeria/





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