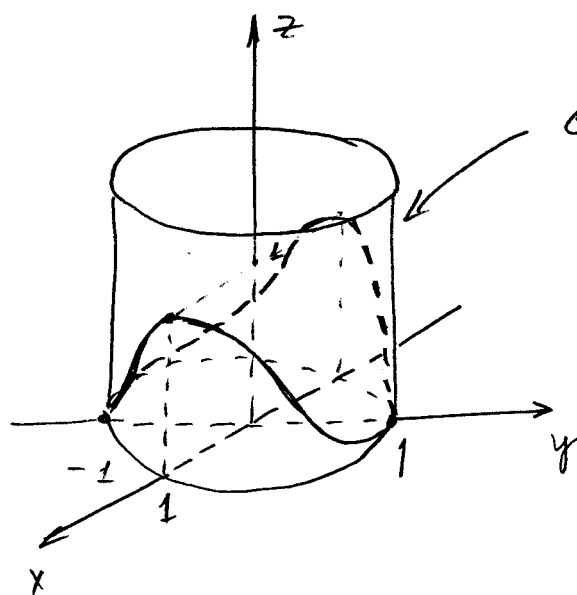


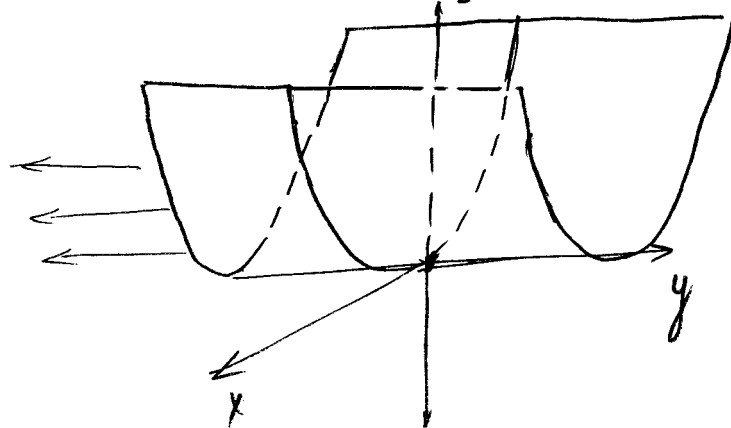
#22: VI ; #24: I #26: III

#28 :
(13.1) $x^2 + y^2 = \sin^2 t + \cos^2 t = 1$; $x^2 = z = \sin^2 t$.



circular
cylinder

$$x^2 + y^2 = 1$$



parabolic cylinder
 $x^2 = z$

The parabolic cylinder cuts the curve
out of the circular cylinder
surface.

#40
(13.1)

$$x = 2 \cos t, \quad y = 2 \sin t$$

parameterizes
the circle $x^2 + y^2 = 4$.

$$z = 4 \cos t \sin t$$

$\Rightarrow (x, y, z) = (2 \cos t, 2 \sin t, 4 \cos t \sin t)$
(other parameterizations are of course possible.)