

Math 20300

Calculus III

Lesson 7

Cylinders

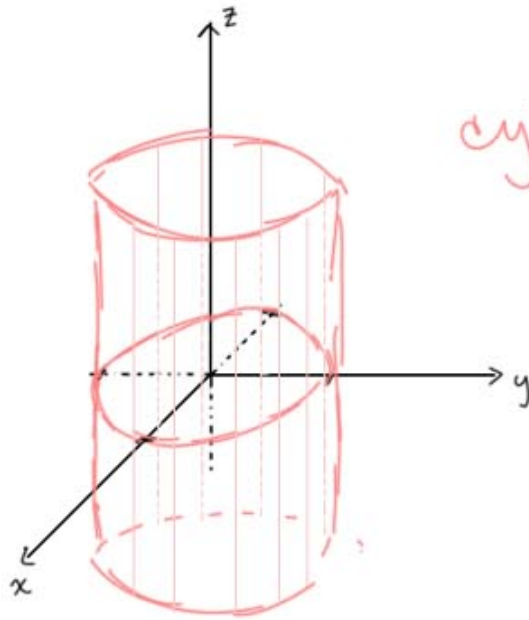
Dr. A. Marchese, The City College of New York

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Definition of cylinder 02:08 p.3

Cylinders

Ex. From lesson 1

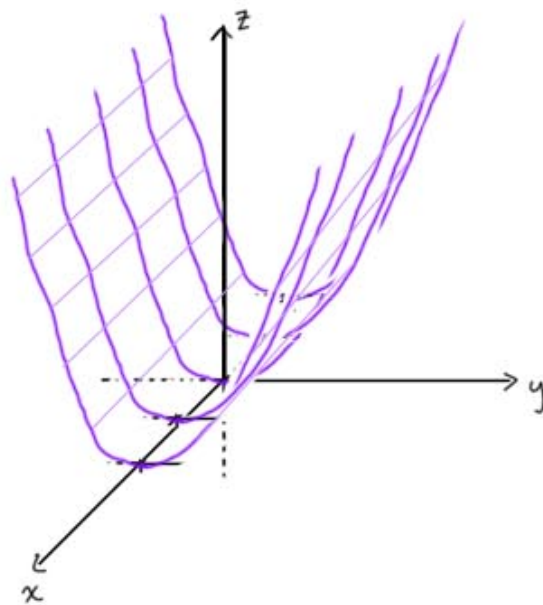


cylinder

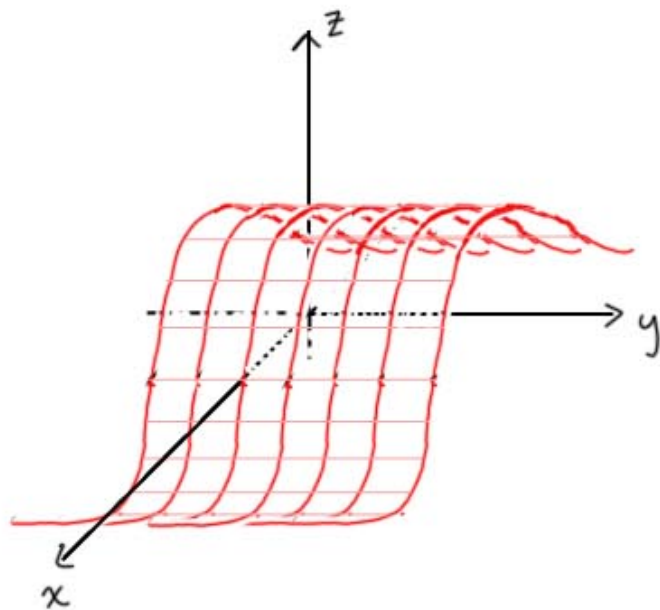
$$x^2 + y^2 = 1 \quad \text{in } \mathbb{R}^3$$

Ex. Parabolic Cylinder

$$z = y^2$$



Ex. $z = \cos x$



A cylinder is a surface that consists of all lines that are parallel to a given line ← the axis for the variable not in the equation and that pass through a plane curve the 2-dimensional sketch of the equation

