

4.6: The Cylinder

In three-dimensional solid geometry the Equation

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1 \quad (4.6.1)$$

represents a cylinder of elliptical cross-section, whose axis coincides with the z -axis. The Equation to a cylinder with an axis in another position and with another orientation can be obtained by the usual processes of translation and rotation of axes (see Section 3.7).

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